

```

name: <unnamed>
log: /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/GMR_replication_log.smcl
log type: smcl
opened on: 3 Nov 2021, 15:24:21

1 . do "/var/folders/q3/rmf9jk5n3lbfy0jr6bt7d3ch000gn/T//SD58535.000000"
2 . *****
3 . * ELECTORAL REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK *
4 . *****
5 .
6 . // NOVEMBER 2, 2021
7 .
8 . // THIS FILE REPLICATES FIGURE 1 IN THE MAIN TEXT OF "ELECTORAL
9 . // REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK" BY
10 . // EMILIO GUTIERREZ, JAAKKO MERILAINEN, AND ADRIAN RUBLI
11 .
12 . global data "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/data" // Insert data directory here
13 . global output "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output" // Insert output directory here
14 .
15 . * Install required package
16 .
17 . ssc install blindschemes, replace
checking blindschemes consistency and verifying not already installed...
all files already exist and are up to date.
18 .
19 . * Open data
20 .
21 . use "$data/GMR_weekly_cases.dta", clear
22 .
23 . *****
24 .
25 . * Figure 1
26 .
27 . tsset week

Time variable: week, 1 to 52
Delta: 1 unit

28 .
29 . twoway (tslide sum_aris, xtitle("Week") ytitle("ARIS (1000s)") scheme(plotplain) xline(27) yaxis(1)) ///
> (tslide excess, ytitle("Excess cases (1000s)", axis(2)) yaxis(2)), ///
> legend(label(1 "ARIS (1000s)") label(2 "Excess cases (1000s)") cols(2) position(6)) ///
> text(1100 31 "Election")
30 .
31 . graph export "$output/fg1.eps", as(eps) preview(off) replace
file /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/fg1.eps saved as EPS format
32 .
end of do-file

33 . do "/var/folders/q3/rmf9jk5n3lbfy0jr6bt7d3ch000gn/T//SD58535.000000"
34 . *****
35 . * ELECTORAL REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK *
36 . *****
37 .
38 . // NOVEMBER 2, 2021
39 .
40 . // THIS FILE REPLICATES TABLES 1 AND 2 IN THE MAIN TEXT OF "ELECTORAL
41 . // REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK" BY
42 . // EMILIO GUTIERREZ, JAAKKO MERILAINEN, AND ADRIAN RUBLI
43 .
44 . global data "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/data" // Insert data directory here
45 . global output "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output" // Insert output directory here
46 .
47 . * Install required packages
48 .
49 . ssc install reghdfe, replace
checking reghdfe consistency and verifying not already installed...
all files already exist and are up to date.
50 . ssc install estout, replace
checking estout consistency and verifying not already installed...
all files already exist and are up to date.
51 .
52 . * Open data
53 .
54 . use "$data/GMR_data_main.dta", clear
55 .
56 . *****
57 .
58 . * Table 1
59 . * H1N1 and electoral performance of the incumbent: difference-in-differences estimates
60 .
61 . egen munitid=group(estado municipio)
62 .
63 . gen year2=year*year // Generate year^2
64 .
65 . preserve
66 .
67 . keep if year==2006 | year==2009
(256,661 observations deleted)
68 . gen a=1 if change_ari!=. & PAN_voteshare!=.
(813 missing values generated)
69 . bysort id: egen sum_a=sum(a)
70 . keep if sum_a==2
(1,428 observations deleted)
71 .
72 . est clear
73 .
74 . eststo: reghdfe PAN_voteshare 1.post#*c.change_ari [aw = total_votos] if year==2006 | year==2009, absorb(id i.munitid#i.year) cluster(clues)
(dropped 434 singleton observations)
note: lba.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MMFE estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression          Number of obs   =   127,370

```

```

Absorbing 2 HDFE groups          F( 1, 16127) = 17.37
Statistics robust to heteroskedasticity  Prob > F      = 0.0000
                                         R-squared    = 0.9593
                                         Adj R-squared = 0.9125
                                         Within R-sq.  = 0.0010
                                         Root MSE     = 4.6570
Number of clusters (clues) = 16,128

```

(Std. err. adjusted for 16,128 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari	0 (omitted)				
post#c.change_ari					
1	-.1740035	.0417464	-4.17	0.000	-.2558311 - .092176
_cons	30.97957	.0076316	4059.36	0.000	30.96462 30.99453

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63685	63685	0 *
munid#year	4438	0	4438

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

75 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 127370

76 . estadd scalar N2 = e(N)/2
added scalar:
      e(N2) = 63685

77 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 16128

78 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"

79 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"

80 . estadd local linear " "
added macro:
      e(linear) : " "

81 . estadd local quadratic " "
added macro:
      e(quadratic) : " "

82 . restore
83 .
84 . preserve
85 .
86 . keep if year==2006 | year==2009
(256,661 observations deleted)

87 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
(7,085 missing values generated)

88 . bysort id: egen sum_a=sum(a)

89 . keep if sum_a==2
(7,658 observations deleted)

90 .
91 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votos] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
(dropped 460 singleton_observations)
note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

HDFE Linear regression          Number of obs = 121,114
Absorbing 2 HDFE groups          F( 1, 15339) = 9.80
Statistics robust to heteroskedasticity  Prob > F      = 0.0017
                                         R-squared    = 0.9590
                                         Adj R-squared = 0.9116
                                         Within R-sq.  = 0.0004
                                         Root MSE     = 4.6880
Number of clusters (clues) = 15,340

```

(Std. err. adjusted for 15,340 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_z	0 (omitted)				
post#c.change_ari_z					
1	-.0155956	.0049814	-3.13	0.002	-.0253598 - .0058315
_cons	30.99943	.0049278	6290.74	0.000	30.98977 31.00909

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60557	60557	0 *
munid#year	4382	0	4382

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

92 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 121114

```

```

93 . estadd scalar N2 = e(N)/2
    added scalar:
          e(N2) = 60557
94 . estadd scalar N3 = e(N_clust)
    added scalar:
          e(N3) = 15340
95 . estadd local district "\checkmark"
    added macro:
          e(district) : "\checkmark"
96 . estadd local stateyear "\checkmark"
    added macro:
          e(stateyear) : "\checkmark"
97 . estadd local linear " "
    added macro:
          e(linear) : " "
98 . estadd local quadratic " "
    added macro:
          e(quadratic) : " "
99 . restore
100 .
101 . preserve
102 .
103 . gen a=1 if change_ari!=. & PAN_voteshare!=.
    (114,080 missing values generated)
104 . bysort id: egen sum_a=sum(a)
105 . keep if sum_a==6
    (233,907 observations deleted)
106 .
107 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
    (dropped 216 singleton_observations)
    note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
    note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
    (MWFE_estimator converged in 7 iterations)
    note: 1.post omitted because of collinearity
    note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 151,770
Absorbing 2 HDFE groups    F( 1, 6502) = 12.72
Statistics robust to heteroskedasticity    Prob > F = 0.0004
                                           R-squared = 0.9276
                                           Adj R-squared = 0.9102
                                           Within R-sq. = 0.0007
                                           Root MSE = 5.0400

Number of clusters (clues) = 6,503
                                (std. err. adjusted for 6,503 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari						
1	-.2193988	.0615268	-3.57	0.000	-.3400116	-.098786
_cons	31.04261	.0090244	3439.87	0.000	31.02492	31.0603

```

Absorbed degrees of freedom:

```

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984

```

* = FE nested within cluster; treated as redundant for DoF computation
(est3 stored)
108 . estadd scalar N1 = e(N)
    added scalar:
          e(N1) = 151770
109 . estadd scalar N2 = e(N)/6
    added scalar:
          e(N2) = 25295
110 . estadd scalar N3 = e(N_clust)
    added scalar:
          e(N3) = 6503
111 . estadd local district "\checkmark"
    added macro:
          e(district) : "\checkmark"
112 . estadd local stateyear "\checkmark"
    added macro:
          e(stateyear) : "\checkmark"
113 . estadd local linear " "
    added macro:
          e(linear) : " "
114 . estadd local quadratic " "
    added macro:
          e(quadratic) : " "
115 .
116 . restore
117 .
118 . preserve
119 .

```

```

120 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (128,008 missing values generated)

121 . bysort id: egen sum_a=sum(a)

122 . keep if sum_a=6
      (242,157 observations deleted)

123 .
124 . eststo: reghdfe PAN_voteshare 1.post#*c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 240 singleton observations)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MHFE_estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

```

```

HDFE Linear regression           Number of obs = 143,496
Absorbing 2 HDFE groups         F( 1, 6143) = 1.29
Statistics robust to heteroskedasticity  Prob > F = 0.2570
                                   R-squared = 0.9272
                                   Adj R-squared = 0.9096
                                   Within R-sq. = 0.0001
                                   Root MSE = 5.0664

Number of clusters (clues) = 6,144      Root MSE = 5.0664
                                       (Std. err. adjusted for 6,144 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari_z	0	(omitted)			
post#c.change_ari_z_1	-.0105882	.0093397	-1.13	0.257	-.0288972 .0077208
_cons	31.02295	.0080788	3840.05	0.000	31.00711 31.03879

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23916	23916	0 *
munid#year	3918	0	3918

* = FE nested within cluster; treated as redundant for DoF computation (est4 stored)

```

125 . estadd scalar N1 = e(N)
      added scalar:
           e(N1) = 143496

126 . estadd scalar N2 = e(N)/6
      added scalar:
           e(N2) = 23916

127 . estadd scalar N3 = e(N_clust)
      added scalar:
           e(N3) = 6144

128 . estadd local district "\checkmark"
      added macro:
           e(district) : "\checkmark"

129 . estadd local stateyear "\checkmark"
      added macro:
           e(stateyear) : "\checkmark"

130 . estadd local linear " "
      added macro:
           e(linear) : " "

131 . estadd local quadratic " "
      added macro:
           e(quadratic) : " "

132 .
133 . restore

134 .
135 . preserve

136 .
137 . gen a=1 if change_ari1!=. & PAN_voteshare!=.
      (114,080 missing values generated)

138 . bysort id: egen sum_a=sum(a)

139 . keep if sum_a=6
      (233,907 observations deleted)

140 .
141 . eststo: reghdfe PAN_voteshare 1.post#*c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 216 singleton observations)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MHFE_estimator converged in 24 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

```

```

HDFE Linear regression           Number of obs = 151,770
Absorbing 3 HDFE groups         F( 1, 6502) = 5.84
Statistics robust to heteroskedasticity  Prob > F = 0.0157
                                   R-squared = 0.9568
                                   Adj R-squared = 0.9326
                                   Within R-sq. = 0.0002
                                   Root MSE = 4.3686

Number of clusters (clues) = 6,503      Root MSE = 4.3686
                                       (Std. err. adjusted for 6,503 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari	0	(omitted)			
post#c.change_ari_1	-.150011	.0621011	-2.42	0.016	-.2717497 -.0282724
_cons	31.03243	.0091086	3406.94	0.000	31.01457 31.05028

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984
id#c.year	25295	0	25295 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est5 stored)

```

142 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 151770
143 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 25295
144 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6503
145 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
146 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
147 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"
148 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
149 .
150 . restore
151 .
152 .
153 . preserve
154 .
155 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (128,008 missing values generated)
156 . bysort id: egen sum_a=sum(a)
157 . keep if sum_a==6
      (242,157 observations deleted)
158 .
159 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 240 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: (MFXE_estimator converged in 26 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDPE Linear regression
      Absorbing 3 HDPE groups
      Statistics robust to heteroskedasticity
      Number of clusters (clues) = 6,144
      Number of obs = 143,496
      F( 1, 6143) = 4.39
      Prob > F = 0.0362
      R-squared = 0.9568
      Adj R-squared = 0.9324
      Within R-sq. = 0.0001
      Root MSE = 4.3815
  
```

(Std. err. adjusted for 6,144 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari_z	0	(omitted)			
post#c.change_ari_z					
1	-.0136459	.0065125	-2.10	0.036	-.0264126 -.0008792
_cons	31.0256	.0056333	5507.58	0.000	31.01455 31.03664

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23916	23916	0 *
munid#year	3918	0	3918
id#c.year	23916	0	23916 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est6 stored)

```

160 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 143496
161 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23916
162 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6144
163 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
  
```

```

164 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
165 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"
166 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
167 .
168 . restore
169 .
170 . preserve
171 .
172 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)
173 . bysort id: egen sum_a=sum(a)
174 . keep if sum_a==6
      (233,907 observations deleted)
175 .
176 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 216 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 21 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

HDFE Linear regression                Number of obs = 151,770
Absorbing 4 HDFE groups                F( 1, 6502) = 4.63
Statistics robust to heteroskedasticity Prob > F = 0.0315
                                         R-squared = 0.9568
                                         Adj R-squared = 0.9088
                                         Within R-sq. = 0.0002
Number of clusters (clues) = 6,503      Root MSE = 5.0793

      (Std. err. adjusted for 6,503 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari_1	-.1501178	.0697838	-2.15	0.031	-.2869171	-.0133186
_cons	31.03244	.0102354	3031.86	0.000	31.01238	31.05251

```

Absorbed degrees of freedom:

```

Absorbed FE	Categories	Redundant	Num. Coefs
id	25295	25295	0 *
munid#year	2984	0	2984
id#c.year	25295	0	25295 ?
id#c.year2	25295	0	25295 ?

```

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est7 stored)
177 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 151770
178 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 25295
179 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6503
180 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
181 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
182 . estadd local linear " "
      added macro:
            e(linear) : " "
183 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"
184 .
185 . restore
186 .
187 . preserve
188 .
189 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (128,008 missing values generated)
190 . bysort id: egen sum_a=sum(a)
191 . keep if sum_a==6
      (242,157 observations deleted)
192 .
193 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 240 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)

```



```

HDFE Linear regression          Number of obs = 127,370
Absorbing 2 HDFE groups        F( 3, 16127) = 8.87
Statistics robust to heteroskedasticity  Prob > F = 0.0000
                                R-squared = 0.9593
                                Adj R-squared = 0.9126
                                Within R-sq. = 0.0016
                                Root MSE = 4.6554

Number of clusters (clues) = 16,128
    
```

(Std. err. adjusted for 16,128 clusters in clues)

PAM_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
year 2009	0 (omitted)				
change_ari	0 (omitted)				
year#c.change_ari 2009	-.1361315	.044567	-3.05	0.002	-.2234877 -.0487753
2.timing	0 (omitted)				
year#2.timing 2009 2	.4181074	.1284935	3.25	0.001	.1662459 .6699689
timing#c.change_ari 2	0 (omitted)				
year#timing#c.change_ari 2009 2	-.1502357	.1135217	-1.32	0.186	-.3727508 .0722793
_cons	30.91891	.0198874	1554.70	0.000	30.87993 30.95789

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	63685	63685	0 *
munid#year	4438	0	4438

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

222 . estadd scalar N1 = e(N)
    added scalar:
           e(N1) = 127370
223 . estadd scalar N2 = e(N)/2
    added scalar:
           e(N2) = 63685
224 . estadd scalar N3 = e(N_clust)
    added scalar:
           e(N3) = 16128
225 . test 2009.year#c.change_ari = 2009.year#2.timing#c.change_ari
      ( 1) 2009.year#c.change_ari - 2009.year#2.timing#c.change_ari = 0
           F( 1, 16127) = 0.01
           Prob > F = 0.9176
226 . estadd scalar f = r(F)
    added scalar:
           e(f) = .01070903
227 . estadd scalar p = r(p)
    added scalar:
           e(p) = .91757977
228 . estadd local district "\checkmark"
    added macro:
           e(district) : "\checkmark"
229 . estadd local stateyear "\checkmark"
    added macro:
           e(stateyear) : "\checkmark"
230 .
231 . restore
232 .
233 . preserve
234 .
235 . keep if year==2006 | year==2009
      (256,661 observations deleted)
236 . gen a=1 if change_ari_z!=. & PAM_voteshare!=.
      (7,085 missing values generated)
237 . bysort id: egen sum_a=sum(a)
238 . keep if sum_a==2
      (7,658 observations deleted)
239 .
240 . eststo: reghdfe PAM_voteshare ib2006.year#c.change_ari_z#i.timing [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 460 singleton observations)
      note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.timing is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.timing#c.change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 7 iterations)
      note: 2009.year omitted because of collinearity
      note: change_ari_z omitted because of collinearity
      note: 2.timing omitted because of collinearity
      note: 2.timing#c.change_ari_z omitted because of collinearity
    
```

```

HDFE Linear regression          Number of obs = 121,114
Absorbing 2 HDFE groups        F( 3, 15339) = 7.31
Statistics robust to heteroskedasticity  Prob > F = 0.0001
                                R-squared = 0.9590
                                Adj R-squared = 0.9117
                                Within R-sq. = 0.0011
                                Root MSE = 4.6865

Number of clusters (clues) = 15,340
    
```

(Std. err. adjusted for 15,340 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
year 2009	0	(omitted)				
change_ari_z	0	(omitted)				
year#c.change_ari_z 2009	-.0165142	.0050819	-3.25	0.001	-.0264752	-.0065531
2.timing	0	(omitted)				
year#2.timing 2009 2	.3781393	.1276623	2.96	0.003	.127906	.6283725
timing#c.change_ari_z 2	0	(omitted)				
year#timing#c.change_ari_z 2009 2	.0085805	.0139324	0.62	0.538	-.0187287	.0358897
_cons	30.94253	.0192866	1604.36	0.000	30.90472	30.98033

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60557	60557	0 *
munid#year	4382	0	4382

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

241 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 121114

242 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 60557

243 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15340

244 . test 2009.year#c.change_ari_z = 2009.year#2.timing#c.change_ari_z
      ( 1) 2009.year#c.change_ari_z - 2009.year#2.timing#c.change_ari_z = 0
            F( 1, 15339) = 2.32
            Prob > F = 0.1281

245 . estadd scalar f = r(F)
      added scalar:
            e(f) = 2.3152871

246 . estadd scalar p = r(p)
      added scalar:
            e(p) = .12812826

247 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

248 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

249 .
250 . restore

251 .
252 . preserve

253 .
254 . keep if year==2006 | year==2009
      (256,661 observations deleted)

255 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (813 missing values generated)

256 . bysort id: egen sum_a=sum(a)

257 . keep if sum_a==2
      (1,428 observations deleted)

258 .
259 . eststo: reghdfe PAN_voteshare ib2006.year#c.change_ari#1.height [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 434 singleton_observations)
      note: 2009a.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.height is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.height#c.change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWFE_estimator converged in 7 iterations)
      note: 2009.year omitted because of collinearity
      note: change_ari omitted because of collinearity
      note: 2.height omitted because of collinearity
      note: 2.height#c.change_ari omitted because of collinearity

      HDFE Linear regression                Number of obs = 127,370
      Absorbing 2 HDFE groups                F( 3, 16127) = 18.51
      Statistics robust to heteroskedasticity Prob > F = 0.0000
                                             R-squared = 0.9594
                                             Adj R-squared = 0.9127
                                             Within R-sq. = 0.0029
      Number of clusters (clues) = 16,128    Root MSE = 4.6526
  
```

(Std. err. adjusted for 16,128 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
year 2009	0	(omitted)				
change_ari	0	(omitted)				
year#c.change_ari						

2009	.485619	.2159253	2.25	0.025	.0623814	.9088566
2.height	0	(omitted)				
year#height						
2009 2	-.6585923	.1197912	-5.50	0.000	-.8933964	-.4237883
height#c.change_ari						
2	0	(omitted)				
year#height#c.change_ari						
2009 2	-.6074542	.2207629	-2.75	0.006	-1.040174	-.1747343
_cons	31.14261	-.0291781	1067.33	0.000	31.08542	31.1998

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	63685	63685	0 *
munid#year	4438	0	4438

* = FE nested within cluster; treated as redundant for DoF computation (est3 stored)

```

260 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 127370

261 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 63685

262 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16128

263 . test 2009.year#c.change_ari = 2009.year#2.height#c.change_ari
      ( 1) 2009.year#c.change_ari - 2009.year#2.height#c.change_ari = 0

            F( 1, 16127) = 6.33
            Prob > F = 0.0119

264 . estadd scalar f = r(F)
      added scalar:
            e(f) = 6.3291865

265 . estadd scalar p = r(p)
      added scalar:
            e(p) = .01188631

266 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

267 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

268 .
269 . restore

270 .
271 . preserve

272 .
273 . keep if year==2006 | year==2009
      (256,661 observations deleted)

274 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (7,085 missing values generated)

275 . bysort id: egen sum_a=sum(a)

276 . keep if sum_a==2
      (7,658 observations deleted)

277 .
278 . eststo: reghdfe PAN_voteshare ih2006.year#c.change_ari_z#i.height [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 460 singleton observations)
      note: 2009ha.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.height is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.height#c.change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (NMF estimator converged in 7 iterations)
      note: 2009.year omitted because of collinearity
      note: change_ari_z omitted because of collinearity
      note: 2.height omitted because of collinearity
      note: 2.height#c.change_ari_z omitted because of collinearity

      HDPE Linear regression           Number of obs = 121,114
      Absorbing 2 HDPE groups          F( 3, 15339) = 16.57
      Statistics robust to heteroskedasticity  Prob > F = 0.0000
                                           R-squared = 0.9591
                                           Adj R-squared = 0.9118
                                           Within R-sq. = 0.0030
                                           Root MSE = 4.6821

      Number of clusters (clues) = 15,340
  
```

(Std. err. adjusted for 15,340 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
year						
2009	0	(omitted)				
change_ari_z	0	(omitted)				
year#c.change_ari_z						
2009	.0030485	.0123859	0.25	0.806	-.0212293	.0273263
2.height	0	(omitted)				
year#height						
2009 2	-.777249	.1226873	-6.34	0.000	-1.017731	-.5367674
height#c.change_ari_z						
2	0	(omitted)				

year#height#c.change_ari_z							
2009 2	-.0147546	.0136236	-1.08	0.279	-.0414584	.0119493	
_cons	31.19909	.0320036	974.86	0.000	31.13636	31.26182	

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60557	60557	0 *
munid#year	4382	0	4382

* = FE nested within cluster; treated as redundant for DoF computation (est4 stored)

```

279 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 121114
280 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 60557
281 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15340
282 . test 2009.year#c.change_ari_z = 2009.year#2.height#c.change_ari_z
      ( 1) 2009.year#c.change_ari_z - 2009.year#2.height#c.change_ari_z = 0
            F( 1, 15339) = 0.49
            Prob > F = 0.4835
283 . estadd scalar f = r(F)
      added scalar:
            e(f) = .49105594
284 . estadd scalar p = r(p)
      added scalar:
            e(p) = .48346728
285 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
286 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
287 .
288 . restore
289 .
290 . preserve
291 .
292 . keep if year==2006 | year==2009
      (256,661 observations deleted)
293 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (813 missing values generated)
294 . bysort id: egen sum_a=sum(a)
295 . keep if sum_a==2
      (1,428 observations deleted)
296 .
297 . eststo: reghdfe PAN_voteshare ib2006.year#c.change_ari#1.distance2 [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 434 singleton observations)
      note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.distance2 is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.distance2#c.change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 7 iterations)
      note: 2009.year omitted because of collinearity
      note: change_ari omitted because of collinearity
      note: 2.distance2 omitted because of collinearity
      note: 2.distance2#c.change_ari omitted because of collinearity

      HDFE Linear regression           Number of obs = 127,370
      Absorbing 2 HDFE groups         F( 3, 16127) = 28.03
      Statistics robust to heteroskedasticity   Prob > F = 0.0000
                                           R-squared = 0.9594
                                           Adj R-squared = 0.9127
                                           Within R-sq. = 0.0036
                                           Root MSE = 4.6510

      Number of clusters (clues) = 16,128      Root MSE = 4.6510
  
```

(Std. err. adjusted for 16,128 clusters in clues)

	PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
year	2009	0	(omitted)			
change_ari		0	(omitted)			
year#c.change_ari	2009	-.1241201	.0416172	-2.98	0.003	-.2056944 -.0425458
2.distance2		0	(omitted)			
year#distance2	2009 2	.7678316	.0901703	8.52	0.000	.5910877 .9445755
distance2#c.change_ari	2	0	(omitted)			
year#distance2#c.change_ari	2009 2	-.1377256	.0628841	-2.19	0.029	-.2609855 -.0144657
_cons		30.81811	.0193855	1589.75	0.000	30.78012 30.85611

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60557	60557	0 *
munid#year	4382	0	4382

```

      id | 63685 63685 0 *
-----+-----
munid#year | 4438 0 4438

* = FE nested within cluster; treated as redundant for DoF computation
(est5 stored)

298 . estadd scalar N1 = e(N)

added scalar:
      e(N1) = 127370

299 . estadd scalar N2 = e(N)/2

added scalar:
      e(N2) = 63685

300 . estadd scalar N3 = e(N_clust)

added scalar:
      e(N3) = 16128

301 . test 2009.year#c.change_ari = 2009.year#2.distance2#c.change_ari

( 1) 2009.year#c.change_ari - 2009.year#2.distance2#c.change_ari = 0

      F( 1, 16127) = 0.03
      Prob > F = 0.8708

302 . estadd scalar f = r(F)

added scalar:
      e(f) = .02644784

303 . estadd scalar p = r(p)

added scalar:
      e(p) = .87081343

304 . estadd local district "\checkmark"

added macro:
      e(district) : "\checkmark"

305 . estadd local stateyear "\checkmark"

added macro:
      e(stateyear) : "\checkmark"

306 .
307 . restore
308 .
309 . preserve

310 .
311 . keep if year==2006 | year==2009
      (256,661 observations deleted)

312 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (7,085 missing values generated)

313 . bysort id: egen sum_a=sum(a)

314 . keep if sum_a==2
      (7,658 observations deleted)

315 .
316 . eststo: reghdfe PAN_voteshare ih2006.year#c.change_ari_z#i.distance2 [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 460 singleton observations)
      note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.distance2 is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.distance2#c.change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 7 iterations)
      note: 2009.year omitted because of collinearity
      note: change_ari_z omitted because of collinearity
      note: 2.distance2 omitted because of collinearity
      note: 2.distance2#c.change_ari_z omitted because of collinearity

HDFE Linear regression      Number of obs = 121,114
Absorbing 2 HDFE groups    F( 3, 15339) = 24.37
Statistics robust to heteroskedasticity    Prob > F = 0.0000
                                          R-squared = 0.9591
                                          Adj R-squared = 0.9118
                                          Within R-sq. = 0.0029
                                          Root MSE = 4.6822

Number of clusters (clues) = 15,340

(Std. err. adjusted for 15,340 clusters in clues)

+-----+-----+-----+-----+-----+-----+
| PAN_voteshare | Coefficient | Robust | t | P>|t| | [95% conf. interval] |
|-----+-----+-----+-----+-----+-----+
| year          |             |         |   |     |                       |
| 2009          | 0 (omitted) |         |   |     |                       |
| change_ari_z  |             |         |   |     |                       |
| year#c.change_ari_z |         |         |   |     |                       |
| 2009          | -.0129432 | .0080483 | -1.61 | 0.108 | -.0287189 .0028325 |
| 2.distance2  |             |         |   |     |                       |
| year#distance2 |         |         |   |     |                       |
| 2009 2       | .7328131 | .091516 | 8.01 | 0.000 | .5534308 .9121954 |
| distance2#c.change_ari_z |         |         |   |     |                       |
| 2           | 0 (omitted) |         |   |     |                       |
| year#distance2#c.change_ari_z |         |         |   |     |                       |
| 2009 2       | -.0048711 | .0111211 | -0.44 | 0.661 | -.0266697 .0169276 |
| _cons        | 30.8443 | .0200284 | 1540.03 | 0.000 | 30.80504 30.88356 |
+-----+-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | Redundant | Num. Coefs |
+-----+-----+-----+-----+
| id          | 60557      | 60557     | 0 *         |
| munid#year  | 4382      | 0         | 4382        |
+-----+-----+-----+-----+

* = FE nested within cluster; treated as redundant for DoF computation
(est6 stored)

317 . estadd scalar N1 = e(N)

added scalar:
      e(N1) = 121114

```

```

318 . estadd scalar N2 = e(N)/2
      added scalar:      e(N2) = 60557
319 . estadd scalar N3 = e(N_clust)
      added scalar:      e(N3) = 15340
320 . test 2009.year#c.change_ari_z = 2009.year#2.distance#c.change_ari_z
      ( 1) 2009.year#c.change_ari_z - 2009.year#2.distance#c.change_ari_z = 0
           F( 1, 15339) = 0.20
           Prob > F = 0.6560
321 . estadd scalar f = r(F)
      added scalar:      e(f) = .1984258
322 . estadd scalar p = r(p)
      added scalar:      e(p) = .6560008
323 . estadd local district "\checkmark"
      added macro:       e(district) : "\checkmark"
324 . estadd local stateyear "\checkmark"
      added macro:       e(stateyear) : "\checkmark"
325 .
326 . restore
327 .
328 .
329 . preserve
330 .
331 . keep if year==2006 | year==2009
      (256,661 observations deleted)
332 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (813 missing values generated)
333 . bysort id: egen sum_a=sum(a)
334 . keep if sum_a==2
      (1,428 observations deleted)
335 .
336 . eststo: reghdfe PAN_voteshare ib2006.year#c.change_ari##i.coverage [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 436 singleton_observations)
      note: 2009ba.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.coverage is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.coverage#c.change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 7 iterations)
      note: 2009.year omitted because of collinearity
      note: change_ari omitted because of collinearity
      note: 2.coverage omitted because of collinearity
      note: 2.coverage#c.change_ari omitted because of collinearity

      HDFE Linear regression           Number of obs = 127,254
      Absorbing 2 HDFE groups           F( 3, 16124) = 61.70
      Statistics robust to heteroskedasticity   R-squared = 0.9597
                                           Adj R-squared = 0.9133
                                           Within R-sq. = 0.0089
                                           Root MSE = 4.6343

      Number of clusters (clues) = 16,125

      (Std. err. adjusted for 16,125 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
year						
2009	0 (omitted)					
change_ari	0 (omitted)					
year#c.change_ari						
2009	-.3504242	.0786721	-4.45	0.000	-.5046303	-.1962182
2.coverage	0 (omitted)					
year#coverage						
2009 2	-1.680965	.1290883	-13.02	0.000	-1.933992	-1.427938
coverage#c.change_ari						
2	0 (omitted)					
year#coverage#c.change_ari						
2009 2	.2599855	.0842688	3.09	0.002	.0948092	.4251618
_cons	31.36036	.0305683	1025.91	0.000	31.30045	31.42028

```

Absorbed degrees of freedom:
-----
Absorbed FE | Categories | - Redundant | = Num. Coefs |
-----
id           | 63627     | 63627      | 0             | *
munid#year   | 4436      | 0          | 4436          |
-----
* = FE nested within cluster; treated as redundant for DoF computation
(est7 stored)
337 . estadd scalar N1 = e(N)
      added scalar:      e(N1) = 127254
338 . estadd scalar N2 = e(N)/2
      added scalar:      e(N2) = 63627
339 . estadd scalar N3 = e(N_clust)
      added scalar:

```

```

e(N3) = 16125
340 . test 2009.year#c.change_ari = 2009.year#2.coverage#c.change_ari
      ( 1) 2009.year#c.change_ari - 2009.year#2.coverage#c.change_ari = 0
      F( 1, 16124) = 15.08
      Prob > F = 0.0001
341 . estadd scalar f = r(F)
      added scalar:
      e(f) = 15.082723
342 . estadd scalar p = r(p)
      added scalar:
      e(p) = .00010331
343 . estadd local district "\checkmark"
      added macro:
      e(district) : "\checkmark"
344 . estadd local stateyear "\checkmark"
      added macro:
      e(stateyear) : "\checkmark"
345 .
346 . restore
347 .
348 . preserve
349 .
350 . keep if year==2006 | year==2009
      (256,661 observations deleted)
351 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (7,085 missing values generated)
352 . bysort id: egen sum_a=sum(a)
353 . keep if sum_a==2
      (7,658 observations deleted)
354 .
355 . eststo: reghdfe PAN_voteshare ih2006.year#c.change_ari_z#i.coverage [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 462 singleton observations)
      note: 2009b.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.coverage is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2bn.coverage#c.change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 7 iterations)
      note: 2009.year omitted because of collinearity
      note: change_ari_z omitted because of collinearity
      note: 2.coverage omitted because of collinearity
      note: 2.coverage#c.change_ari_z omitted because of collinearity

      HDFE Linear regression      Number of obs = 121,004
      Absorbing 2 HDFE groups      F( 3, 15336) = 53.17
      Statistics robust to heteroskedasticity      Prob > F = 0.0000
      R-squared = 0.9594
      Adj R-squared = 0.9124
      Within R-sq. = 0.0078
      Root MSE = 4.6665

      Number of clusters (clues) = 15,337
      (Std. err. adjusted for 15,337 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
year 2009	0	(omitted)				
change_ari_z	0	(omitted)				
year#c.change_ari_z 2009	-.0191337	.0049165	-3.89	0.000	-.0287707	-.0094967
2.coverage	0	(omitted)				
year#coverage 2009 2	-1.595445	.1311287	-12.17	0.000	-1.852473	-1.338417
coverage#c.change_ari_z 2	0	(omitted)				
year#coverage#c.change_ari_z 2009 2	.008607	.0105285	0.82	0.414	-.01203	.0292441
_cons	31.35746	.0294688	1064.09	0.000	31.2997	31.41522

```

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id           | 60502      | 60502       | 0             |
| munid#year   | 4380       | 0           | 4380          |
+-----+-----+-----+-----+
* = FE nested within cluster; treated as redundant for DoF computation
(est8 stored)
356 . estadd scalar N1 = e(N)
      added scalar:
      e(N1) = 121004
357 . estadd scalar N2 = e(N)/2
      added scalar:
      e(N2) = 60502
358 . estadd scalar N3 = e(N_clust)
      added scalar:
      e(N3) = 15337
359 . test 2009.year#c.change_ari_z = 2009.year#2.coverage#c.change_ari_z
      ( 1) 2009.year#c.change_ari_z - 2009.year#2.coverage#c.change_ari_z = 0
      F( 1, 15336) = 4.58
      Prob > F = 0.0324
360 . estadd scalar f = r(F)

```

```

added scalar:      e(f) = 4.5787954
361 . estadd scalar p = r(p)
added scalar:      e(p) = .0323857
362 . estadd local district "\checkmark"
added macro:       e(district) : "\checkmark"
363 . estadd local stateyear "\checkmark"
added macro:       e(stateyear) : "\checkmark"
364 .
365 . restore
366 .
367 . preserve
368 .
369 . keep if year==2006 | year==2009
(256,661 observations deleted)
370 . gen a=1 if change_ari!=. & PAN_voteshare!=.
(813 missing values generated)
371 . bysort id: egen sum_a=sum(a)
372 . keep if sum_a==2
(1,428 observations deleted)
373 .
374 . eststo: reghdfe PAN_voteshare ib2006.year#c.change_ari#1.pan [aw = total_votes], absorb(id i.munid#1.year) cluster(clues)
(dropped 434 singleton observations)
note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 1bn.pan is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2009bn.year#1bn.pan is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 1bn.pan#c.change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 7 iterations)
note: 2009.year omitted because of collinearity
note: change_ari omitted because of collinearity
note: 1.pan omitted because of collinearity
note: 2009.year#1.pan omitted because of collinearity
note: 1.pan#c.change_ari omitted because of collinearity

```

```

HDFE Linear regression           Number of obs = 127,370
Absorbing 2 HDFE groups         F( 2, 16127) = 14.21
Statistics robust to heteroskedasticity  Prob > F = 0.0000
                                   R-squared = 0.9593
                                   Adj R-squared = 0.9126
                                   Within R-sq. = 0.0019
                                   Root MSE = 4.6549

```

(Std. err. adjusted for 16,128 clusters in clues)

	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
PAN_voteshare						
year						
2009	0 (omitted)					
change_ari						
year#c.change_ari						
2009	-.0924605	.0417052	-2.22	0.027	-.1742074	-.0107136
1.pan	0 (omitted)					
year#pan						
2009 1	0 (omitted)					
pan#c.change_ari						
1	0 (omitted)					
year#pan#c.change_ari						
2009 1	-.4381693	.1171071	-3.74	0.000	-.6677123	-.2086263
_cons	30.9804	.0072786	4256.38	0.000	30.96614	30.99467

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	63685	63685	0 *
munid#year	4438	0	4438

* = FE nested within cluster; treated as redundant for DoF computation (est9 stored)

```

375 . estadd scalar N1 = e(N)
added scalar:      e(N1) = 127370
376 . estadd scalar N2 = e(N)/2
added scalar:      e(N2) = 63685
377 . estadd scalar N3 = e(N_clust)
added scalar:      e(N3) = 16128
378 . test 2009.year#c.change_ari = 2009.year#1.pan#c.change_ari
( 1) 2009.year#c.change_ari - 2009.year#1.pan#c.change_ari = 0
      F( 1, 16127) = 6.31
      Prob > F = 0.0120
379 . estadd scalar f = r(F)
added scalar:      e(f) = 6.3128633
380 . estadd scalar p = r(p)
added scalar:      e(p) = .01199619

```

```

381 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
382 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
383 .
384 . restore
385 .
386 . preserve
387 .
388 . keep if year==2006 | year==2009
      (256,661 observations deleted)
389 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (7,085 missing values generated)
390 . bysort id: egen sum_a=sum(a)
391 . keep if sum_a==2
      (7,658 observations deleted)
392 .
393 . eststo: reghdfe PAN_voteshare ib2006.year#c.change_ari_z##i.pan [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 460 singleton observations)
      note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: lbn.pan is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: 2009bn.year#lbn.pan is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: lbn.pan#c.change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWF estimator converged in 7 iterations)
      note: 2009.year omitted because of collinearity
      note: change_ari_z omitted because of collinearity
      note: l.pan omitted because of collinearity
      note: 2009.year#l.pan omitted because of collinearity
      note: l.pan#c.change_ari_z omitted because of collinearity

HDFE Linear regression           Number of obs = 121,114
Absorbing 2 HDFE groups         F( 2, 15339) = 7.92
Statistics robust to heteroskedasticity   Prob > F = 0.0004
                                         R-squared = 0.9590
                                         Adj R-squared = 0.9116
                                         Within R-sq. = 0.0004
                                         Root MSE = 4.6881

Number of clusters (clues) = 15,340

```

(Std. err. adjusted for 15,340 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
year						
2009	0 (omitted)					
change_ari_z	0 (omitted)					
year#c.change_ari_z						
2009	-.0156529	.0039698	-3.94	0.000	-.0234343	-.0078716
l.pan	0 (omitted)					
year#pan						
2009 l	0 (omitted)					
pan#c.change_ari_z						
l	0 (omitted)					
year#pan#c.change_ari_z						
2009 l	.0004493	.0283987	0.02	0.987	-.0552156	.0561142
_cons	30.9994	.0060407	5131.73	0.000	30.98756	31.01124

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60557	60557	0 *
munid#year	4382	0	4382

* = FE nested within cluster; treated as redundant for DoF computation (est10 stored)

```

394 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 121114
395 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 60557
396 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15340
397 . test 2009.year#c.change_ari_z = 2009.year#l.pan#c.change_ari_z
      ( 1) 2009.year#c.change_ari_z - 2009.year#l.pan#c.change_ari_z = 0
            F( 1, 15339) = 0.30
            Prob > F = 0.5816
398 . estadd scalar f = r(F)
      added scalar:
            e(f) = .30365548
399 . estadd scalar p = r(p)
      added scalar:
            e(p) = .58160781
400 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
401 . estadd local stateyear "\checkmark"

```

```

added macro:
e(stateyear) : "\checkmark"

402 .
403 . restore

404 .
405 . esttab est* using "output/table2.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
> compress lines star(*.l ** .05 *** .01) label ///
> mgroups("Timing of peak" "Height of peak" "Distance from healthcare" "Insurance coverage" "PAN governor", pattern(1 0 1 0 1 0 1 0) prefix(\multicolumn{#span}{c}{}) suffix{)} span erepeat(\cmdrule{lr}{#span}) ///
> b(49.3f) se(49.3f) stats(NI N2 N3 f p district stateyear, labels("Number of observations" "Number of sections" "Number of clusters" "\textit{P}-statistic" "\textit{p}-value" "Section FE" "Municipality-year FE") ///
> fmt(0 0 0 2) keep(2009.year#f.c.change_ari 2009.year#f.c.change_ari_z ///
> 2009.year#2.timing#f.c.change_ari 2009.year#2.timing#f.c.change_ari_z ///
> 2009.year#2.height#f.c.change_ari 2009.year#2.height#f.c.change_ari_z ///
> 2009.year#2.coverage#f.c.change_ari 2009.year#2.coverage#f.c.change_ari_z ///
> 2009.year#1.pan#f.c.change_ari 2009.year#1.pan#f.c.change_ari_z ///
> coeflabels(2009.year#c.change_ari "1[Year = 2009] \$\times\$ Excess ARI cases (1000s)" ///
> 2009.year#c.change_ari_z "1[Year = 2009] \$\times\$ Excess ARI cases (z-score)" ///
> 2009.year#2.timing#f.c.change_ari "1[Year = 2009] \$\times\$ Excess ARI cases (1000s) \$\times\$ Late peak" ///
> 2009.year#2.height#f.c.change_ari_z "1[Year = 2009] \$\times\$ Excess ARI cases (z-score) \$\times\$ Late peak" ///
> 2009.year#2.height#f.c.change_ari "1[Year = 2009] \$\times\$ Excess ARI cases (1000s) \$\times\$ High peak" ///
> 2009.year#2.height#f.c.change_ari_z "1[Year = 2009] \$\times\$ Excess ARI cases (z-score) \$\times\$ High peak" ///
> 2009.year#2.distance2#f.c.change_ari "1[Year = 2009] \$\times\$ Excess ARI cases (1000s) \$\times\$ Far from healthcare" ///
> 2009.year#2.distance2#f.c.change_ari_z "1[Year = 2009] \$\times\$ Excess ARI cases (z-score) \$\times\$ Far from healthcare" ///
> 2009.year#2.coverage#f.c.change_ari "1[Year = 2009] \$\times\$ Excess ARI cases (1000s) \$\times\$ High insurance coverage" ///
> 2009.year#2.coverage#f.c.change_ari_z "1[Year = 2009] \$\times\$ Excess ARI cases (z-score) \$\times\$ High insurance coverage" ///
> 2009.year#1.pan#f.c.change_ari "1[Year = 2009] \$\times\$ Excess ARI cases (1000s) \$\times\$ State controlled by PAN" ///
> 2009.year#1.pan#f.c.change_ari_z "1[Year = 2009] \$\times\$ Excess ARI cases (z-score) \$\times\$ State controlled by PAN" ///
> order(2009.year#c.change_ari 2009.year#c.change_ari_z ///
> 2009.year#2.timing#f.c.change_ari 2009.year#2.timing#f.c.change_ari_z ///
> 2009.year#2.height#f.c.change_ari 2009.year#2.height#f.c.change_ari_z ///
> 2009.year#2.distance2#f.c.change_ari 2009.year#2.distance2#f.c.change_ari_z ///
> 2009.year#2.coverage#f.c.change_ari 2009.year#2.coverage#f.c.change_ari_z ///
> 2009.year#1.pan#f.c.change_ari 2009.year#1.pan#f.c.change_ari_z) ///
> nodelvar noomitl prehead(\begin{tabular}{l*{11}{c}} \toprule) ///
> postfoot(\bottomrule \end{tabular})
(output written to /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/Top/final/replication_materials/output/table2.tex)

406 .
end of do-file

407 . do "/var/folders/q3/rmf9j5n3lbfy0jrbt7d3ch000gn/T//SD58535.000000"

408 . *****
409 . * ELECTORAL REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK *
410 . *****
411 .
412 . // NOVEMBER 2, 2021
413 .
414 . // THIS FILE REPLICATES FIGURES 2 AND 3 IN THE MAIN TEXT OF "ELECTORAL
415 . // REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK" BY
416 . // EMILIO GUTIÉRREZ, JAAKKO MERILÄINEN, AND ADRIÁN RUBLI
417 .
418 . global data "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/data" // Insert data directory here
419 . global output "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output" // Insert output directory here

420 .
421 . * Open data
422 .
423 . use "$data/GMR_data_main.dta", clear

424 .
425 . *****
426 .
427 . * Figure 2
428 . * H1N1 and electoral performance of the incumbent: event-study estimates
429 .
430 . egen munit=group(estado municipio) // generate municipality identifiers

431 .
432 . preserve

433 .
434 . gen a=1 if change_ari!=. & PAN_voteshare!=. // NB. The analyses in the main text use a balanced panel
(114,080 missing values generated)

435 . bsort id: egen sum_a=sum(a)

436 . drop if sum_a<6
(233,907 observations deleted)

437 .
438 . est clear

439 .
440 . reghdfe PAN_voteshare lb2006.year#c.change_ari [aw = total_votos], absorb(id i.munit#i.year) cluster(clues)
(dropped 216 singleton observations)
note: 1997bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2000bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2003bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2012bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(HMFE estimator converged in 7 iterations)
note: 1997.year omitted because of collinearity
note: 2000.year omitted because of collinearity
note: 2003.year omitted because of collinearity
note: 2009.year omitted because of collinearity
note: 2012.year omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression
Number of obs = 151,770
Absorbing 2 HDFE groups F( 5, 6502) = 3.79
Statistics robust to heteroskedasticity Prob > F = 0.0020
R-squared = 0.9276
Adj R-squared = 0.9103
Within R-sq. = 0.0009
Root MSE = 5.0395

Number of clusters (clues) = 6,503 Root MSE = 5.0395
(Std. err. adjusted for 6,503 clusters in clues)

+-----+-----+-----+-----+-----+-----+
| PAN_voteshare | Robust | | | | |
| Coefficient | std. err. | t | P>|t| | [95% conf. interval] |
+-----+-----+-----+-----+-----+
| year | | | | | |
| 1997 | 0 (omitted) | | | | |
| 2000 | 0 (omitted) | | | | |
| 2003 | 0 (omitted) | | | | |
| 2009 | 0 (omitted) | | | | |
| 2012 | 0 (omitted) | | | | |
| change_ari | 0 (omitted) | | | | |
+-----+-----+-----+-----+-----+
| year#c.change_ari | | | | | | |
| 1997 | -.0798793 | .0633589 | 1.26 | 0.207 | -.0443251 | .2040836 |
| 2000 | .1342829 | .0786852 | 1.71 | 0.088 | -.0199659 | .2885316 |

```

2003	.0179616	.0531902	0.34	0.736	-.0863086	.1222319
2009	-.2489404	.0627456	-3.97	0.000	-.3719424	-.1259385
2012	-.0999497	.0516655	-1.93	0.053	-.2012311	.0013317
_cons	31.0186	.013468	2303.14	0.000	30.9922	31.045

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984

* = FE nested within cluster; treated as redundant for DoF computation

```

441 . local N1 = e(N)
442 . local N2 = `N1'/6
443 . local N3 = e(N_clust)
444 . coefplot, vertical scheme(plotplain) keep(1997.year#c.* 2000.year#c.* 2003.year#c.* 2006.year 2009.year#c.* 2012.year#c.*) ///
> omitted baselevels order(1997.year#c.* 2000.year#c.* 2003.year#c.* 2006.year 2009.year#c.* 2012.year#c.*) ///
> coeflabels(1997.year#c.* = "1997" 2000.year#c.* = "2000" 2003.year#c.* = "2003" 2006.year = "2006" 2009.year#c.* = "2009" 2012.year#c.* = "2012") ///
> ylabel(,format(%9.2f)) ytitle("Effect of excess cases (1000s)") xtitle("Election") note("Number of observations = `N1'" "Number of sections = `N2'" "Number of clusters = `N3'"") yline(0) mlabposition(1) mlabel(string(%b,"%9.3f")
> + cond(@pval<.01, "****", cond(@pval<.05, "***", cond(@pval<.1, "**", "")))) subtitle("Panel A: Excess cases and PAN vote share", position(11))
445 . graph save `output/PAN_voteshare_excess_section_balanced.gph', replace
file `Users/Jaakko/Dropbox/Jaakko_Adrian_Emlio/submissions/JoP/final/replication_materials/output/PAN_voteshare_excess_section_balanced.gph saved
446 .
447 . test i1997.year#c.change_ari i2000.year#c.change_ari i2003.year#c.change_ari
( 1) 1997.year#c.change_ari = 0
( 2) 2000.year#c.change_ari = 0
( 3) 2003.year#c.change_ari = 0
F( 3, 6502) = 1.48
Prob > F = 0.2184
448 . test i2009.year#c.change_ari i2012.year#c.change_ari
( 1) 2009.year#c.change_ari = 0
( 2) 2012.year#c.change_ari = 0
F( 2, 6502) = 7.99
Prob > F = 0.0003
449 .
450 . restore
451 .
452 . preserve
453 .
454 . gen a=1 if change_ari_2!=. & PAN_voteshare!=.
(128,008 missing values generated)
455 . bysort id: egen sum_a=sum(a)
456 . drop if sum_a<6
(242,157 observations deleted)
457 .
458 . reghdfe PAN_voteshare ib2006.year#c.change_ari_2 [aw = total_votes], absorb(id i.munid#i.year) cluster(clues)
(dropped 240 singletons_observed)
note: 1997bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2000bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2003bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2012bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_2 is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(HDFE estimator converged in 7 iterations)
note: 1997.year omitted because of collinearity
note: 2000.year omitted because of collinearity
note: 2003.year omitted because of collinearity
note: 2009.year omitted because of collinearity
note: 2012.year omitted because of collinearity
note: change_ari_2 omitted because of collinearity
HDFE Linear regression Number of obs = 143,496
Absorbing 2 HDFE groups F( 5, 6143) = 2.31
Statistics robust to heteroskedasticity Prob > F = 0.0416
R-squared = 0.9272
Adj R-squared = 0.9096
Within R-sq. = 0.0002
Root MSE = 5.0663
Number of clusters (clues) = 6,144
(Std. err. adjusted for 6,144 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
year						
1997	0	(omitted)				
2000	0	(omitted)				
2003	0	(omitted)				
2009	0	(omitted)				
2012	0	(omitted)				
change_ari_2	0	(omitted)				
year#c.change_ari_2						
1997	-.0001156	.0094375	0.01	0.990	-.0183852	.0186164
2000	-.0101989	.0151781	-0.67	0.502	-.0399523	.0195554
2003	-.0063254	.0077528	-0.82	0.415	-.0215235	.0088728
2009	-.0196962	.0070153	-2.81	0.005	-.0334486	-.0059438
2012	-.010957	.004725	-2.32	0.020	-.0202197	-.0016943
_cons	31.03241	.0118932	2609.26	0.000	31.00909	31.05572

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23916	23916	0 *
munid#year	3918	0	3918

* = FE nested within cluster; treated as redundant for DoF computation

```

459 . local N1 = e(N)
460 . local N2 = `N1'/6
461 . local N3 = e(N_clust)

```

```

462 . coefplot, vertical scheme(plotplain) keep(1997.year#c.* 2000.year#c.* 2003.year#c.* 2006.year 2009.year#c.* 2012.year#c.*) ///
> omitted baselevels order(1997.year#c.* 2000.year#c.* 2003.year#c.* 2006.year 2009.year#c.* 2012.year#c.*) ///
> coeflabels(1997.year#c.* = "1997" 2000.year#c.* = "2000" 2003.year#c.* = "2003" 2006.year = "2006" 2009.year#c.* = "2009" 2012.year#c.* = "2012") ///
> ylabel(,format(%9.2f)) ytitle("Effect of excess cases (z-score)") xtitle("Election") note["Number of observations = 'N1'" "Number of sections = 'N2'" "Number of clusters = 'N3'"] yline(0) mlabposition(1) mlabel(string(%b,"%9.3f
"> ) + cond(@pval<.01, "****", cond(@pval<.05, "**", cond(@pval<.1, "*", ""))) subtitle("Panel B: Excess cases (z-score) and PAN vote share", position(11))

463 . graph save "Soutput/PAN_voteshare_excess_z_section_balanced.gph", replace
file /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/PAN_voteshare_excess_z_section_balanced.gph saved

464 .
465 . test i1997.year#c.change_ari_z i2000.year#c.change_ari_z i2003.year#c.change_ari_z

( 1) 1997.year#c.change_ari_z = 0
( 2) 2000.year#c.change_ari_z = 0
( 3) 2003.year#c.change_ari_z = 0

F( 3, 6143) = 1.02
Prob > F = 0.3804

466 . test i2009.year#c.change_ari_z i2012.year#c.change_ari_z

( 1) 2009.year#c.change_ari_z = 0
( 2) 2012.year#c.change_ari_z = 0

F( 2, 6143) = 4.48
Prob > F = 0.0114

467 .
468 . restore

469 .
470 . graph combine "Soutput/PAN_voteshare_excess_section_balanced.gph" ///
> "Soutput/PAN_voteshare_excess_z_section_balanced.gph", ///
> cols(2) scheme(plotplain) xsize(16) ysize(9)

471 . graph export "Soutput/fg2.eps", as(eps) preview(off) replace
file /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/fg2.eps saved as EPS format

472 .
473 . *****
474 .
475 . * Figure 3
476 . * Effect of the H1N1 epidemic on voter turnout
477 .
478 . preserve

479 .
480 . gen a=1 if change_ari!=. & turnout!=.
(191,269 missing values generated)

481 . bysort id: egen sum_a=sum(a)

482 . keep if sum_a==3
(118,052 observations deleted)

483 .
484 . reghdfe turnout ib2006.year#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(id)
(dropped 654 singleton observations)
note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2012bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 8 iterations)
note: 2009.year omitted because of collinearity
note: 2012.year omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression Number of obs = 190,322
Absorbing 2 HDFE groups F( 2, 63449) = 47.71
Statistics robust to heteroskedasticity Prob > F = 0.0000
R-squared = 0.9487
Adj R-squared = 0.9188
Within R-sq. = 0.0009
Root MSE = 3.3922

Number of clusters (id) = 63,450
(Std. err. adjusted for 63,450 clusters in id)

turnout | Robust
Coefficient | std. err. | t | P>|t| | [95% conf. interval]
-----+-----
year |
2009 | 0 (omitted)
2012 | 0 (omitted)
change_ari | 0 (omitted)
year#c.change_ari |
2009 | -.1828286 | .0190852 | -9.58 | 0.000 | -.2202356 | -.1454216
2012 | -.0600438 | .0174057 | -3.45 | 0.001 | -.094159 | -.0259285
_cons | 58.13374 | .0042833 | 1.4e+04 | 0.000 | 58.12534 | 58.14213

Absorbed degrees of freedom:
Absorbed FE | Categories | - Redundant = Num. Coefs
-----+-----
id | 63450 | 63450 | 0 *
munid#year | 6653 | 0 | 6653

* = FE nested within cluster; treated as redundant for DoF computation

485 . local N2 = e(N_clust)

486 .
487 . reghdfe turnout ib2006.year#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
(dropped 654 singleton observations)
note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2012bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 8 iterations)
note: 2009.year omitted because of collinearity
note: 2012.year omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression Number of obs = 190,322
Absorbing 2 HDFE groups F( 2, 16101) = 11.91
Statistics robust to heteroskedasticity Prob > F = 0.0000
R-squared = 0.9487
Adj R-squared = 0.9188
Within R-sq. = 0.0009
Root MSE = 3.3922

Number of clusters (clues) = 16,102
(Std. err. adjusted for 16,102 clusters in clues)

turnout | Robust
Coefficient | std. err. | t | P>|t| | [95% conf. interval]
-----+-----
year |

```

2009	0	(omitted)				
2012	0	(omitted)				
change_ari	0	(omitted)				
year#c.change_ari						
2009	-.1828286	.0374877	-4.88	0.000	-.2563087	-.1093485
2012	-.0600438	.0220096	-2.73	0.006	-.1031851	-.0169025
_cons	58.13374	.0068365	8503.39	0.000	58.12034	58.14714

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63450	63450	0 *
munid#year	6653	0	6653

* = FE nested within cluster; treated as redundant for DoF computation

```

488 . local N1 = e(N)
489 . local N3 = e(N_clust)
490 . coefplot, vertical scheme(plotplain) keep(2003.year#* 2006.year 2009.year#* 2012.year#*) ///
> omitted baselevels order(2003.year#* 2006.year 2009.year#* 2012.year#*) ///
> coeflabels(2003.year#* = "2003" 2006.year = "2006" 2009.year#* = "2009" 2012.year#* = "2012") ///
> xtitle("Election") note("Number of observations = "N1" "Number of sections = "N2" "Number of clusters = "N3") ylabel(format(%9.2f)) ytitle("Effect of excess cases (1000s)") xtitle("Election") note("Number of observations = "
> "N1" "Number of sections = "N2" "Number of clusters = "N3") yline(0) mlabposition(1) mlabel(string(%9.3f) + cond(#pval<.01, "****", cond(#pval<.05, "***", cond(#pval<.1, "**", "")))) subtitle("Panel A: Excess cases and turnout", p
> osition(11))
491 . graph save "soutput/turnout_excess_section_balanced.gph", replace
file /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/turnout_excess_section_balanced.gph saved
492 .
493 . restore
494 .
495 . preserve
496 .
497 . gen a=1 if change_ari_2!=. & turnout!=.
(200,991 missing values generated)
498 . bysort id: egen sum_a=sum(a)
499 . keep if sum_a=3
(131,548 observations deleted)
500 .
501 . reghdfe turnout ib2006.year#c.change_ari_z [aw = total_votes], absorb(id i.munid#i.year) cluster(id)
(dropped 696 singleton observations)
note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2012bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 8 iterations)
note: 2009.year omitted because of collinearity
note: 2012.year omitted because of collinearity
note: change_ari_z omitted because of collinearity

```

```

HDPE Linear regression          Number of obs = 180,975
Absorbing 2 HDPE groups        F( 2, 60333) = 1.92
Statistics robust to heteroskedasticity  Prob > F = 0.1468
                                R-squared = 0.9488
                                Adj R-squared = 0.9188
                                Within R-sq. = 0.0001
Number of clusters (id) = 60,334  Root MSE = 3.3934

```

(Std. err. adjusted for 60,334 clusters in id)

turnout	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
year					
2009	0	(omitted)			
2012	0	(omitted)			
change_ari_z	0	(omitted)			
year#c.change_ari_z					
2009	-.0057675	.0038252	-1.51	0.132	-.0132648 .0017299
2012	-.0011002	.001988	0.55	0.580	-.0027962 .0049966
_cons	58.09373	.003403	1.7e+04	0.000	58.08706 58.1004

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60334	60334	0 *
munid#year	6566	0	6566

* = FE nested within cluster; treated as redundant for DoF computation

```

502 . local N2 = e(N_clust)
503 .
504 . reghdfe turnout ib2006.year#c.change_ari_z [aw = total_votes], absorb(id i.munid#i.year) cluster(clues)
(dropped 696 singleton observations)
note: 2009bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: 2012bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 8 iterations)
note: 2009.year omitted because of collinearity
note: 2012.year omitted because of collinearity
note: change_ari_z omitted because of collinearity

```

```

HDPE Linear regression          Number of obs = 180,975
Absorbing 2 HDPE groups        F( 2, 15314) = 3.82
Statistics robust to heteroskedasticity  Prob > F = 0.0219
                                R-squared = 0.9488
                                Adj R-squared = 0.9188
                                Within R-sq. = 0.0001
Number of clusters (clues) = 15,315  Root MSE = 3.3934

```

(Std. err. adjusted for 15,315 clusters in clues)

turnout	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
year					
2009	0	(omitted)			
2012	0	(omitted)			
change_ari_z	0	(omitted)			

year#	c.change_ari_z						
2009	-.0057675	.0033248	-1.73	0.083	-.0122845	.0007496	
2012	.0011002	.0023293	0.47	0.637	-.0034655	.0056659	
_cons	58.09373	.0037018	1.6e+04	0.000	58.08647	58.10099	

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60334	60334	0 *
munid#year	6566	0	6566

* = FE nested within cluster; treated as redundant for DoF computation

```

505 . local N1 = e(N)
506 . local N3 = e(N_clust)
507 . coefplot, vertical scheme(plotplain) keep(2003.year#* 2006.year 2009.year#* 2012.year#*) ///
> omitted baselevels order(2003.year#* 2006.year 2009.year#* 2012.year#*) ///
> coeflabels(2003.year#* = "2003" 2006.year = "2006" 2009.year#* = "2009" 2012.year#* = "2012") ///
> xtitle("Election") note("Number of observations = `N1'" "Number of sections = `N2'" "Number of clusters = `N3'") ylabel(,format(%9.3f)) ytitle("Effect of excess cases (z-score)") xtitle("Election") note("Number of observations
> = `N1'" "Number of sections = `N2'" "Number of clusters = `N3'") yline(0) mlabposition(1) mlabel(string(%9.3f")) + cond(%pval<.01, "****", cond(%pval<.05, "****", cond(%pval<.1, "****", ""))) subtitle("Panel B: Excess cases (z-score) and
> turnout", position(1))
508 . graph save "$output/turnout_excess_z_seccion_balanced.gph", replace
file /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/turnout_excess_z_seccion_balanced.gph saved
509 .
510 . graph combine "$output/turnout_excess_seccion_balanced.gph" ///
> "$output/turnout_excess_z_seccion_balanced.gph", ///
> cols(2) scheme(plotplain) xsize(16) ysize(9)
511 . graph export "$output/fg3.eps", as(eps) preview(off) replace
file /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/fg3.eps saved as EPS format
512 .
513 . restore
514 .
end of do-file
515 . do "$var/folders/q3/rmf9j5n3lbfy0jr6bt7d3ch0000gn/T//SD58535.000000"
516 . *****
517 . * ELECTORAL REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK *
518 . *****
519 .
520 . // NOVEMBER 2, 2021
521 .
522 . // THIS FILE REPLICATES TABLES A1 AND A2 IN APPENDIX A OF "ELECTORAL
523 . // REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK" BY
524 . // EMILIO GUTIÉRREZ, JAAKKO MERILÄINEN, AND ADRIÁN RUBÍ
525 .
526 . global data "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/data" // Insert data directory here
527 . global output "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output" // Insert output directory here
528 .
529 . * Open data
530 .
531 . use "$data/GMR_data_main.dta", clear
532 .
533 . *****
534 .
535 . * Table A1
536 .
537 . est clear
538 .
539 . preserve
540 .
541 . gen a=1 if change_ari!=. & PAN_voteshare!=.
(114,080 missing values generated)
542 . bysort id: egen sum_a=sum(a)
543 . drop if sum_a<6
(233,907 observations deleted)
544 .
545 . la var PAN_voteshare "\quad PAN vote share"
546 . la var PRI_voteshare "\quad PRI vote share"
547 . la var others "\quad Other parties' vote share"
548 . la var turnout "\quad Voter turnout"
549 . la var change_ari "\quad Excess cases (1000s)"
550 . la var change_ari_z "\quad Excess cases (z-score)"
551 .
552 . estpost summarize PAN_voteshare PRI_voteshare others turnout change_ari change_ari_z

```

	e(count)	e(sum_w)	e(mean)	e(Var)	e(sd)	e(min)	e(max)	e(sum)
PAN_votesh-e	151986	151986	29.01333	292.1721	17.09304	0	95.89041	4409620
PRI_votesh-e	151986	151986	37.15045	277.3224	16.653	0	100	5646348
others	151986	151986	33.83623	380.2892	19.501	-3.81e-06	100	5142633
turnout	75926	75926	55.31615	171.197	13.08423	4.563758	100	4199934
change_ari	151986	151986	.3548801	1.389916	1.178947	-7.230333	17.191	53936.81
change_ari_z	143736	143736	2.120971	107.4798	10.36725	-69.66967	379.8965	304859.9

```

553 . esttab using "$output/tableA1.tex", replace booktabs cells("count mean(fmt(%9.2f)) sd(fmt(%9.2f))") noobs nontitle nonumber label ///
> collabels("textit(N)" "Mean" "Std. dev.") refcat(PAN_voteshare "\emph{Electoral outcomes}" change_ari "\emph{H1N1 exposure}"), nolabel
(output written to /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/tableA1.tex)
554 .
555 . restore
556 .
557 . * Table A2
558 .
559 . est clear
560 .
561 . preserve
562 .
563 . la var PAN_voteshare "\quad PAN vote share"
564 . la var PRI_voteshare "\quad PRI vote share"

```

```

565 . la var others "\quad Other parties' vote share"
566 . la var turnout "\quad Voter turnout"
567 . la var change_ari "\quad Excess cases (1000s)"
568 . la var change_ari_z "\quad Excess cases (z-score)"
569 .
570 . estpost summarize PAN_voteshare PRI_voteshare others turnout change_ari change_ari_z

```

	e(count)	e(sum_w)	e(mean)	e(Var)	e(sd)	e(min)	e(max)	e(sum)
PAN_votesh-e	385260	385260	28.34451	282.6061	16.81089	0	98.18182	1.09e+07
PRI_votesh-e	385260	385260	36.92922	263.765	16.24084	0	100	1.42e+07
others	395260	385260	34.72627	360.2634	18.98061	-3.81e-06	100	1.34e+07
turnout	195507	195507	55.50926	170.7653	13.06772	0	100	1.09e+07
change_ari	272127	272127	.3665368	1.405967	1.185735	-7.230333	17.191	99744.57
change_ari_z	258180	258180	2.078675	84.56143	9.195729	-142.1223	379.8965	536672.2

```

571 . esttab using "$output/tableA2.tex", replace booktabs cells("count mean(fmt(%9.2f)) sd(fmt(%9.2f))") noobs nometitle nonumber label ///
> collabels("textit{B}") "Mean" "Std. dev." refcat(PAN_voteshare "emph{Electoral outcomes}" change_ari "emph{H1N1 exposure}"), nolabel)
(output written to /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/tableA2.tex)
572 .
573 . restore
574 .
end of do-file
575 . do "/var/folders/q3/rmf9j5n3lbfy0jr6bt7d3cho000gn/T//SD58535.000000"
576 . *****
577 . * ELECTORAL REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK *
578 . *****
579 .
580 . // NOVEMBER 2, 2021
581 .
582 . // THIS FILE REPLICATES TABLES B1, B2, AND B3 IN APPENDIX B OF "ELECTORAL
583 . // REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK" BY
584 . // EMILIO GUTIÉRREZ, JAAKKO MERILÄINEN, AND ADRIÁN RUBÍ
585 .
586 . global data "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/data" // Insert data directory here
587 . global output "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output" // Insert output directory here
588 .
589 . * Open data
590 .
591 . use "$data/GMR_data_main.dta", clear
592 .
593 . egen munid=group(estado municipio) // Generate an identifier for municipalities
594 . gen year2=year*year
595 .
596 . *****
597 .
598 . * Table B1
599 .
600 . est clear
601 .
602 . eststo: reghdfe PAN_voteshare_president ib2006.year#c.change_ari [aw = total_votos, absorb(id i.munid#i.year) cluster(clues)
(dropped 3087 singleton observations)
note: 2012m.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 7 iterations)
note: 2012.year omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 127,182
Absorbing 2 HDFE groups    F( 1, 16115) = 34.66
Statistics robust to heteroskedasticity    Prob > F = 0.0000
                                           R-squared = 0.9646
                                           Adj R-squared = 0.9239
                                           Within R-sq. = 0.0027
                                           Root MSE = 4.3821

Number of clusters (clues) = 16,116

(Std. err. adjusted for 16,116 clusters in clues)

```

PAN_voteshare_p-t	Robust				
	Coefficient	std. err.	t	P> t	[95% conf. interval]
year	0 (omitted)				
change_ari	0 (omitted)				
year#c.change_ari					
2012	-.2774019	.0471199	-5.89	0.000	-.3697622 --.1850417
_cons	30.16892	.0103438	2916.63	0.000	30.14864 30.18919

```

Absorbed degrees of freedom:
-----
Absorbed FE | Categories | - Redundant | = Num. Coefs
-----
id          | 63591      | 63591       | 0 *
munid#year  | 4438       | 0           | 4438
* = FE nested within cluster; treated as redundant for DoF computation
(est1 stored)
603 . estadd scalar N1 = e(N)
added scalar:
e(N1) = 127182
604 . estadd scalar N2 = e(N)/2
added scalar:
e(N2) = 63591
605 . estadd scalar N3 = e(N_clust)
added scalar:
e(N3) = 16116
606 . estadd local district "\checkmark"
added macro:
e(district) : "\checkmark"
607 . estadd local stateyear "\checkmark"

```

```

added macro:
    e(stateyear) : "\checkmark"

608 .
609 . eststo: reghdfe PAN_voteshare_president ib2006.year#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 2751 singleton observations)
      note: 2012bn.year is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 8 iterations)
      note: 2012.year omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDFE Linear regression           Number of obs = 120,950
      Absorbing 2 HDFE groups          F( 1, 15327) = 12.32
      Statistics robust to heteroskedasticity  Prob > F = 0.0004
                                          R-squared = 0.9646
                                          Adj R-squared = 0.9238
                                          Within R-sq. = 0.0014
                                          Root MSE = 4.3874

      Number of clusters (clues) = 15,328

      (Std. err. adjusted for 15,328 clusters in clues)

      +-----+-----+-----+-----+-----+-----+
      PAN_voteshare_pre-t | Coefficient | Robust | t | P>|t| | [95% conf. interval]
      +-----+-----+-----+-----+-----+-----+
      year |
      2012 |           0 | (omitted)
      change_ari_z |
      2012 |           0 | (omitted)
      year#c.change_ari_z |
      2012 | -.0270176 | .0076962 | -3.51 | 0.000 | -.0421031 | -.0119322
      _cons | 30.12142 | .0094453 | 3189.05 | 0.000 | 30.10291 | 30.13993
      +-----+-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id | 60475 | 60475 | 0 | *
| munid#year | 4380 | 0 | 4380 |
+-----+-----+-----+-----+
* = FE nested within cluster; treated as redundant for DoF computation
(est2 stored)

610 . estadd scalar N1 = e(N)
      added scalar:
          e(N1) = 120950

611 . estadd scalar N2 = e(N)/2
      added scalar:
          e(N2) = 60475

612 . estadd scalar N3 = e(N_clust)
      added scalar:
          e(N3) = 15328

613 . estadd local district "\checkmark"
      added macro:
          e(district) : "\checkmark"

614 . estadd local stateyear "\checkmark"
      added macro:
          e(stateyear) : "\checkmark"

615 .
616 . esttab est* using "soutput/tableB1.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
      >
      > compress lines star(*.1** .05 *** .01) label ///
      > b(49,3f) se(49,3f) stats(N1 N2 N3 district stateyear, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE")) ///
      > fmat(0 0 0) keep(2012.year#c.change_ari 2012.year#c.change_ari_z) ///
      > coeflabels(2012.year#c.change_ari "1[Year = 2012] $\times$ Excess ARI cases (1000s)" ///
      > 2012.year#c.change_ari_z "1[Year = 2012] $\times$ Excess ARI cases (z-score)") ///
      > nodelvars nomtitle prehead\begin{tabular}{l*{3}{c}} \toprule) ///
      > postfoot\bottomrule \end{tabular})
      (output written to /Users/jaakko/ Dropbox/Jaakko_Adrian_Emlilio/submissions/Top/final/replication_materials/output/tableB1.tex)

617 .
618 . est clear

619 .
620 . * Table B2
621 .
622 . preserve

623 .
624 . keep if year==2006 | year==2009
      (256,661 observations deleted)

625 . gen a=1 if change_ari!=. & PRI_voteshare!=.
      (813 missing values generated)

626 . bysort id: egen sum_a=sum(a)

627 . keep if sum_a==2
      (1,428 observations deleted)

628 .
629 . est clear

630 .
631 . eststo: reghdfe PRI_voteshare 1.post#c.change_ari [aw = total_votos] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
      (dropped 434 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

      HDFE Linear regression           Number of obs = 127,370
      Absorbing 2 HDFE groups          F( 1, 16127) = 0.39
      Statistics robust to heteroskedasticity  Prob > F = 0.5333
                                          R-squared = 0.9457
                                          Adj R-squared = 0.8832
                                          Within R-sq. = 0.0000
                                          Root MSE = 4.8760

      Number of clusters (clues) = 16,128

      (Std. err. adjusted for 16,128 clusters in clues)

      +-----+-----+-----+-----+-----+-----+
      PRI_voteshare | Coefficient | Robust | t | P>|t| | [95% conf. interval]
      +-----+-----+-----+-----+-----+-----+

```

1.post	0	(omitted)					
change_ari	0	(omitted)					
post#c.change_ari							
1	-.0271755	.0436246	-0.62	0.533	-.1126846	.0583336	
_cons	32.04084	.007975	4017.66	0.000	32.0252	32.05647	

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63685	63685	0 *
munid#year	4438	0	4438

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

632 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 127370
633 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 63685
634 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16128
635 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
636 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
637 . estadd local linear " "
      added macro:
            e(linear) : " "
638 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
639 . restore
640 .
641 . preserve
642 .
643 . keep if year==2006 | year==2009
      (256,661 observations deleted)
644 . gen a=1 if change_ari_2!=. & PRI_voteshare!=.
      (7,085 missing values generated)
645 . bysort id: egen sum_a=sum(a)
646 . keep if sum_a==2
      (7,658 observations deleted)
647 .
648 . eststo: reghdfe PRI_voteshare 1.post#c.change_ari_z [aw = total_votos] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
      (dropped 460 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MLE estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDPE Linear regression           Number of obs = 121,114
      Absorbing 2 HDPE groups           F( 1, 15339) = 0.00
      Statistics robust to heteroskedasticity   Prob > F = 0.9463
                                                    R-squared = 0.9450
                                                    Adj R-squared = 0.8813
                                                    Within R-sq. = 0.0000
                                                    Root MSE = 4.9027

      Number of clusters (clues) = 15,340
      (Std. err. adjusted for 15,340 clusters in clues)
  
```

	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari_z	0	(omitted)			
post#c.change_ari_z					
1	-.0003236	.0048056	-0.07	0.946	-.0097431 .0090959
_cons	32.06316	.0047538	6744.69	0.000	32.05384 32.07248

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60557	60557	0 *
munid#year	4382	0	4382

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

649 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 121114
650 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 60557
651 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15340
652 . estadd local district "\checkmark"
  
```

```

added macro:
  e(district) : "\checkmark"
653 . estadd local stateyear "\checkmark"
added macro:
  e(stateyear) : "\checkmark"
654 . estadd local linear " "
added macro:
  e(linear) : " "
655 . estadd local quadratic " "
added macro:
  e(quadratic) : " "
656 . restore
657 .
658 . preserve
659 .
660 . gen a=1 if change_ari!=. & PRI_voteshare!=.
      (114,080 missing values generated)
661 . bysort id: egen sum_a=sum(a)
662 . keep if sum_a==6
      (233,907 observations deleted)
663 .
664 . eststo: reghdfe PRI_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 216 singleton_observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 151,770
Absorbing 2 HDFE groups    F( 1, 6502) = 5.74
Statistics robust to heteroskedasticity    Prob > F = 0.0166
                                           R-squared = 0.9020
                                           Adj R-squared = 0.8785
                                           Within R-sq. = 0.0002
                                           Root MSE = 5.1677

Number of clusters (clues) = 6,503

(Std. err. adjusted for 6,503 clusters in clues)

```

		Robust				
PRI_voteshare	Coefficient	std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari						
1	.1213411	.0506357	2.40	0.017	.0220784 .2206038	
_cons	33.58696	.0074269	4522.33	0.000	33.5724 33.60152	

```

Absorbed degrees of freedom:

```

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984

```

* = FE nested within cluster; treated as redundant for DoF computation
(est3 stored)
665 . estadd scalar N1 = e(N)
added scalar:
  e(N1) = 151770
666 . estadd scalar N2 = e(N)/6
added scalar:
  e(N2) = 25295
667 . estadd scalar N3 = e(N_clust)
added scalar:
  e(N3) = 6503
668 . estadd local district "\checkmark"
added macro:
  e(district) : "\checkmark"
669 . estadd local stateyear "\checkmark"
added macro:
  e(stateyear) : "\checkmark"
670 . estadd local linear " "
added macro:
  e(linear) : " "
671 . estadd local quadratic " "
added macro:
  e(quadratic) : " "
672 .
673 . restore
674 .
675 . preserve
676 .
677 . gen a=1 if change_ari_z!=. & PRI_voteshare!=.
      (128,008 missing values generated)
678 . bysort id: egen sum_a=sum(a)
679 . keep if sum_a==6
      (242,157 observations deleted)
680 .
681 . eststo: reghdfe PRI_voteshare 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 240 singleton_observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)

```

note: `change_ari_z` is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
 (HDFE estimator converged in 7 iterations)
 note: 1.post omitted because of collinearity
 note: `change_ari_z` omitted because of collinearity

```

HDFE Linear regression           Number of obs = 143,496
Absorbing 2 HDFE groups         F( 1, 6143) = 4.33
Statistics robust to heteroskedasticity   Prob > F = 0.0374
                                   R-squared = 0.9014
                                   Adj R-squared = 0.8777
                                   Within R-sq. = 0.0002
Number of clusters (clues) = 6,144      Root MSE = 5.1835
    
```

(Std. err. adjusted for 6,144 clusters in clues)

PRI_voteshare	Robust				
	Coefficient	std. err.	t	P> t	[95% conf. interval]
1.post change_ari_z	0 (omitted)				
post#c.change_ari_z 1	.0123808	.005948	2.08	0.037	.0007206 .024041
_cons	33.56164	.005145	6523.13	0.000	33.55155 33.57172

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23916	23916	0 *
munid#year	3918	0	3918

* = FE nested within cluster; treated as redundant for DoF computation (est4 stored)

```

682 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 143496

683 . estadd scalar N2 = e(N)/6
added scalar:
      e(N2) = 23916

684 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 6144

685 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"

686 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"

687 . estadd local linear " "
added macro:
      e(linear) : " "

688 . estadd local quadratic " "
added macro:
      e(quadratic) : " "

689 .
690 . restore
691 .
692 . preserve

693 .
694 . gen a=1 if change_ari!=. & PRI_voteshare!=.
      (114,080 missing values generated)

695 . bysort id: egen sum_a=sum(a)

696 . keep if sum_a==6
      (233,907 observations deleted)

697 .
698 . eststo: reghdfe PRI_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 216 singleton observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(HDFE estimator converged in 24 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression           Number of obs = 151,770
Absorbing 3 HDFE groups         F( 1, 6502) = 0.10
Statistics robust to heteroskedasticity   Prob > F = 0.7554
                                   R-squared = 0.9325
                                   Adj R-squared = 0.9039
                                   Within R-sq. = 0.0000
Number of clusters (clues) = 6,503      Root MSE = 4.5958
    
```

(Std. err. adjusted for 6,503 clusters in clues)

PRI_voteshare	Robust				
	Coefficient	std. err.	t	P> t	[95% conf. interval]
1.post change_ari	0 (omitted)				
post#c.change_ari 1	-.0161634	.0518788	-0.31	0.755	-.1178629 .0855361
_cons	33.60713	.0076092	4416.62	0.000	33.59221 33.62205

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984
id#c.year	25295	0	25295 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation

```
(est5 stored)
699 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 151770
700 . estadd scalar N2 = e(N)/6
added scalar:
      e(N2) = 25295
701 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 6503
702 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"
703 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"
704 . estadd local linear "\checkmark"
added macro:
      e(linear) : "\checkmark"
705 . estadd local quadratic " "
added macro:
      e(quadratic) : " "
706 .
707 . restore
708 .
709 .
710 . preserve
711 .
712 . gen a=1 if change_ari_z!=. & PRI_voteshare!=.
      (128,008 missing values generated)
713 . bysort id: egen sum_a=sum(a)
714 . keep if sum_a==6
      (242,157 observations deleted)
715 .
716 . eststo: reghdfe PRI_voteshare 1.post#c.change_ari_z [aw = total_votes], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 240 singleton observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE_estimator converged in 26 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

HDFE Linear regression                Number of obs = 143,496
Absorbing 3 HDFE groups                F( 1, 6143) = 0.21
Statistics robust to heteroskedasticity Prob > F = 0.6506
                                         R-squared = 0.9381
                                         Adj R-squared = 0.9032
                                         Within R-sq. = 0.0000
                                         Root MSE = 4.6116

Number of clusters (clues) = 6,144
                                         (Std. err. adjusted for 6,144 clusters in clues)
```

PRI_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari_z	0	(omitted)			
post#c.change_ari_z					
1	-.0020098	.0044369	-0.45	0.651	-.0107076 .006688
_cons	33.57408	.0038379	8748.09	0.000	33.56656 33.58161

```

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id           | 23916     | 23916       | 0             | *
| munid#year   | 3918      | 0           | 3918          |
| id#c.year    | 23916     | 0           | 23916         | ?
+-----+-----+-----+-----+
? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est6 stored)
717 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 143496
718 . estadd scalar N2 = e(N)/6
added scalar:
      e(N2) = 23916
719 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 6144
720 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"
721 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"
722 . estadd local linear "\checkmark"
added macro:
      e(linear) : "\checkmark"
723 . estadd local quadratic " "
```

```

added macro:
    e(quadratic) : " "

724 .
725 . restore

726 .
727 . preserve

728 .
729 . gen a=1 if change_ari!=. & PRI_voteshare!=.
    (114,080 missing values generated)

730 . bysort id: egen sum_a=sum(a)

731 . keep if sum_a==6
    (233,907 observations deleted)

732 .
733 . eststo: reghdfe PRI_voteshare 1.post#*c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
    (dropped 216 singleton observations)
    note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
    note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
    (HDFE_estimator converged in 21 iterations)
    note: 1.post omitted because of collinearity
    note: change_ari omitted because of collinearity

HDFE Linear regression           Number of obs = 151,770
Absorbing 4 HDFE groups         F( 1, 6502) = 0.06
Statistics robust to heteroskedasticity   Prob > F = 0.7813
                                         R-squared = 0.9385
                                         Adj R-squared = 0.8701
                                         Within R-sq. = 0.0000
Number of clusters (clues) = 6,503      Root MSE = 5.3436

(Std. err. adjusted for 6,503 clusters in clues)

```

PRI_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari	0 (omitted)					
post#c.change_ari_1	-.016185	.0582894	-0.28	0.781	-.1304514	.0980815
_cons	33.60713	.0085495	3930.88	0.000	33.59037	33.62389

```

Absorbed degrees of freedom:

```

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984
id#c_year	25295	0	25295 ?
id#c_year2	25295	0	25295 ?

```

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est7 stored)

734 . estadd scalar N1 = e(N)

added scalar:
    e(N1) = 151770

735 . estadd scalar N2 = e(N)/6

added scalar:
    e(N2) = 25295

736 . estadd scalar N3 = e(N_clust)

added scalar:
    e(N3) = 6503

737 . estadd local district "\checkmark"

added macro:
    e(district) : "\checkmark"

738 . estadd local stateyear "\checkmark"

added macro:
    e(stateyear) : "\checkmark"

739 . estadd local linear " "

added macro:
    e(linear) : " "

740 . estadd local quadratic "\checkmark"

added macro:
    e(quadratic) : "\checkmark"

741 .
742 . restore

743 .
744 . preserve

745 .
746 . gen a=1 if change_ari_z!=. & PRI_voteshare!=.
    (128,008 missing values generated)

747 . bysort id: egen sum_a=sum(a)

748 . keep if sum_a==6
    (242,157 observations deleted)

749 .
750 . eststo: reghdfe PRI_voteshare 1.post#*c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
    (dropped 240 singleton observations)
    note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
    note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
    (HDFE_estimator converged in 112 iterations)
    note: 1.post omitted because of collinearity
    note: change_ari_z omitted because of collinearity

HDFE Linear regression           Number of obs = 143,496
Absorbing 4 HDFE groups         F( 1, 6143) = 0.17
Statistics robust to heteroskedasticity   Prob > F = 0.6829
                                         R-squared = 0.9381
                                         Adj R-squared = 0.8691
                                         Within R-sq. = 0.0000
Number of clusters (clues) = 6,144      Root MSE = 5.3635

```

(Std. err. adjusted for 6,144 clusters in clues)

PRI_voteshare	Robust		t	P> t	[95% conf. interval]	
	Coefficient	std. err.				
1.post	0	(omitted)				
change_ari_2	0	(omitted)				
post#c.change_ari_2	-.0020378	.0049882	-0.41	0.683	-.0118165	.0077409
_cons	33.57411	.0043148	7781.12	0.000	33.56565	33.58257

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23916	23916	0 *
munid#year	3918	0	3918
id#c.year	23916	0	23916 ?
id#c.year2	23916	0	23916 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est8 stored)

```

751 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 143496

752 . estadd scalar N2 = e(N)/6
added scalar:
      e(N2) = 23916

753 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 6144

754 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"

755 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"

756 . estadd local linear " "
added macro:
      e(linear) : " "

757 . estadd local quadratic "\checkmark"
added macro:
      e(quadratic) : "\checkmark"

758 .
759 . restore

760 .
761 . esttab est* using "foutput/tableB2.tex", replace noomit nobaselevels booktabs mlabels(none) ///
> compress lines star(*.1** .05 *** .01) label ///
> mgroups("2006-2009" "1997-2012", pattern(1 0 1 0 0 0 0) prefix\multicolumn{#span}{c}{ } suffix{ } span erepeat\cmidrule{lr}{#span}) ///
> b(9.3f) se(9.3f) stats(N1 N2 N3 district stateyear linear quadratic, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE" "Linear time trend" "Quadratic time trend")) //
> /
> fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_2) ///
> coeflabels(1.post#c.change_ari "1|Year $\geq$ 2009] $\times$ Excess ARI cases (1000s)" ///
> 1.post#c.change_ari_2 "1|Year $\geq$ 2009] $\times$ Excess ARI cases (z-score)" ///
> order(1.post#c.change_ari 1.post#c.change_ari_2) ///
> nodepvars nomtitle prehead\begin{tabular}{l*{9}{c}} \toprule ///
> postfoot\bottomrule \end{tabular}
(output written to /Users/jaakko/Dropbox/jaakko_adrian_emilio/submissions/10P/final/replication_materials/output/tableB2.tex)

762 .
763 . *****
764 .
765 . * Table B3
766 .
767 . preserve

768 .
769 . keep if year==2006 | year==2009
(256,661 observations deleted)

770 . gen a=1 if change_ari!=. & others!=.
(813 missing values generated)

771 . bysort id: egen sum_a=sum(a)

772 . keep if sum_a==2
(1,428 observations deleted)

773 .
774 . est clear

775 .
776 . eststo: reghdfe others 1.post#c.change_ari [aw = total_votes] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
(dropped 434 singleton_observations)
note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs   = 127,370
Absorbing 2 HDFE groups    F( 1, 16127)    = 13.58
Statistics robust to heteroskedasticity  Prob > F        = 0.0002
                                R-squared       = 0.9655
                                Adj R-squared   = 0.9258
                                Within R-sq.    = 0.0011
Number of clusters (clues) = 16,128      Root MSE       = 5.0065

(Std. err. adjusted for 16,128 clusters in clues)

      others
      Coefficient      Robust
      change_ari      std. err.      t      P>|t|      [95% conf. interval]
      1.post          0 (omitted)
      change_ari      0 (omitted)
      post#c.change_ari
    
```

1	.2011791	.0546023	3.68	0.000	.0941524	.3082057
_cons	36.97959	.0099818	3704.69	0.000	36.96002	36.99915

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63685	63685	0 *
munid#year	4438	0	4438

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

777 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 127370
778 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 63685
779 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16128
780 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
781 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
782 . estadd local linear " "
      added macro:
            e(linear) : " "
783 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
784 . restore
785 .
786 . preserve
787 .
788 . keep if year==2006 | year==2009
      (256,661 observations deleted)
789 . gen a=1 if change_ari_z!=. & others!=.
      (7,085 missing values generated)
790 . bysort id: egen sum_a=sum(a)
791 . keep if sum_a==2
      (7,658 observations deleted)
792 .
793 . estato: reghdfe others 1.post#%.change_ari_z [aw = total_votos] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
      (dropped 460 singleton observations)
      note: lba.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE_estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

```

```

HDFE Linear regression           Number of obs = 121,114
Absorbing 2 HDFE groups         F( 1, 15339) = 6.56
Statistics robust to heteroskedasticity  Prob > F = 0.0104
                                   R-squared = 0.9652
                                   Adj R-squared = 0.9250
                                   Within R-sq. = 0.0004
                                   Root MSE = 5.0292

```

(Std. err. adjusted for 15,340 clusters in clues)

	others	Robust Coefficient	std. err.	t	P> t	[95% conf. interval]
1.post		0	(omitted)			
change_ari_z		0	(omitted)			
post#%.change_ari_z	1	.0159193	.0062136	2.56	0.010	.0037399 .0280986
_cons		36.93741	.0061467	6009.31	0.000	36.92536 36.94946

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60557	60557	0 *
munid#year	4382	0	4382

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

794 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 121114
795 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 60557
796 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15340
797 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

```

```

798 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
799 . estadd local linear " "
      added macro:
            e(linear) : " "
800 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
801 . restore
802 .
803 . preserve
804 .
805 . gen a=1 if change_ari!=. & others!=.
      (114,080 missing values generated)
806 . bysort id: egen sum_a=sum(a)
807 . keep if sum_a==6
      (233,907 observations deleted)
808 .
809 . eststo: reghdfe others 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 216 singleton observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

HDFE Linear regression                Number of obs = 151,770
Absorbing 2 HDFE groups                F( 1, 6502) = 5.20
Statistics robust to heteroskedasticity  Prob > F = 0.0226
                                         R-squared = 0.9434
                                         Adj R-squared = 0.9298
                                         Within R-sq. = 0.0001
                                         Root MSE = 5.1882

Number of clusters (clues) = 6,503
                                         (Std. err. adjusted for 6,503 clusters in clues)

```

others	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari	0	(omitted)			
post#c.change_ari					
1	.0980577	.042999	2.28	0.023	.0137655 .18235
_cons	35.37043	.0063068	5608.28	0.000	35.35807 35.38279

```

Absorbed degrees of freedom:
-----
Absorbed FE | Categories | - Redundant | = Num. Coefs
-----
id           | 25295     | 25295      | 0 *
munid#year  | 3984      | 0          | 3984
* = FE nested within cluster; treated as redundant for DoF computation
(est3 stored)
810 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 151770
811 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 25295
812 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6503
813 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
814 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
815 . estadd local linear " "
      added macro:
            e(linear) : " "
816 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
817 .
818 . restore
819 .
820 . preserve
821 .
822 . gen a=1 if change_ari_2!=. & others!=.
      (128,008 missing values generated)
823 . bysort id: egen sum_a=sum(a)
824 . keep if sum_a==6
      (242,157 observations deleted)
825 .
826 . eststo: reghdfe others 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 240 singleton observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

```

```

HDFE Linear regression      Number of obs = 143,496
Absorbing 2 HDFE groups    F( 1, 6143) = 0.10
Statistics robust to heteroskedasticity  Prob > F = 0.7518
                                R-squared = 0.9431
                                Adj R-squared = 0.9294
                                Within R-sq. = 0.0000
                                Root MSE = 5.2046

Number of clusters (clues) = 6,144
    
```

(Std. err. adjusted for 6,144 clusters in clues)

others	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari_2	0	(omitted)				
post#c.change_ari_2_1	-.0017926	.0056684	-0.32	0.752	-.0129047	.0093196
_cons	35.41541	.0049032	7222.93	0.000	35.4058	35.42503

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23916	23916	0 *
munid#year	3918	0	3918

* = FE nested within cluster; treated as redundant for DoF computation (est4 stored)

```

827 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 143496

828 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23916

829 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6144

830 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

831 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

832 . estadd local linear " "
      added macro:
            e(linear) : " "

833 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "

834 .
835 . restore

836 .
837 . preserve

838 .
839 . gen a=1 if change_ari!=. & others!=.
      (114,080 missing values generated)

840 . bysort id: egen sum_a=sum(a)

841 . keep if sum_a==6
      (233,907 observations deleted)

842 .
843 . eststo: reghdfe others 1.post#c.change_ari [aw = total_votes], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 216 singleton_observations)
      note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 24 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity
    
```

```

HDFE Linear regression      Number of obs = 151,770
Absorbing 3 HDFE groups    F( 1, 6502) = 6.79
Statistics robust to heteroskedasticity  Prob > F = 0.0092
                                R-squared = 0.9622
                                Adj R-squared = 0.9409
                                Within R-sq. = 0.0002
                                Root MSE = 4.7618

Number of clusters (clues) = 6,503
    
```

(Std. err. adjusted for 6,503 clusters in clues)

others	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari_1	.1661744	.0637702	2.61	0.009	.0411638	.2911851
_cons	35.36044	.0093534	3780.49	0.000	35.3421	35.37878

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984
id#c.year	25295	0	25295 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation (est5 stored)

```
844 . estadd scalar N1 = e(N)
```

```

added scalar:
    e(N1) = 151770
845 . estadd scalar N2 = e(N)/6
added scalar:
    e(N2) = 25295
846 . estadd scalar N3 = e(N_clust)
added scalar:
    e(N3) = 6503
847 . estadd local district "\checkmark"
added macro:
    e(district) : "\checkmark"
848 . estadd local stateyear "\checkmark"
added macro:
    e(stateyear) : "\checkmark"
849 . estadd local linear "\checkmark"
added macro:
    e(linear) : "\checkmark"
850 . estadd local quadratic " "
added macro:
    e(quadratic) : " "
851 .
852 . restore
853 .
854 .
855 . preserve
856 .
857 . gen a=1 if change_ari_z!=. & others!=.
    (128,008 missing values generated)
858 . bysort id: egen sum_a=sum(a)
859 . keep if sum_a==6
    (242,157 observations deleted)
860 .
861 . eststo: reghdfe others 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
    (dropped 240 singleton observations)
    note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
    note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
    (HDFE estimator converged in 26 iterations)
    note: 1.post omitted because of collinearity
    note: change_ari_z omitted because of collinearity

HDFE Linear regression                Number of obs = 143,496
Absorbing 3 HDFE groups                F( 1, 6143) = 5.33
Statistics robust to heteroskedasticity Prob > F = 0.0209
                                         R-squared = 0.9620
                                         Adj R-squared = 0.9406
                                         Within R-sq. = 0.0001
                                         Root MSE = 4.7770

Number of clusters (clues) = 6,144

(Std. err. adjusted for 6,144 clusters in clues)

+-----+-----+-----+-----+-----+-----+
|      |      |      |      |      |      |
| others | Coefficient | Robust | t | P>|t| | [95% conf. interval] |
|-----+-----+-----+-----+-----+-----+
| 1.post |          0 | (omitted) |   |   |   |
| change_ari_z |          0 | (omitted) |   |   |   |
|-----+-----+-----+-----+-----+-----+
| post#c.change_ari_z | .0156557 | .0067783 | 2.31 | 0.021 | .0023679 | .0289435 |
| 1 | | | | | | |
| _cons | 35.40032 | .0058632 | 6037.72 | 0.000 | 35.38883 | 35.41181 |
+-----+-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id | 23916 | 23916 | 0 | * |
| munid#year | 3918 | 0 | 3918 | |
| id#c.year | 23916 | 0 | 23916 | ? |
+-----+-----+-----+-----+
? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est6 stored)
862 . estadd scalar N1 = e(N)
added scalar:
    e(N1) = 143496
863 . estadd scalar N2 = e(N)/6
added scalar:
    e(N2) = 23916
864 . estadd scalar N3 = e(N_clust)
added scalar:
    e(N3) = 6144
865 . estadd local district "\checkmark"
added macro:
    e(district) : "\checkmark"
866 . estadd local stateyear "\checkmark"
added macro:
    e(stateyear) : "\checkmark"
867 . estadd local linear "\checkmark"
added macro:
    e(linear) : "\checkmark"
868 . estadd local quadratic " "
added macro:
    e(quadratic) : " "
869 .

```

```

870 . restore
871 .
872 . preserve
873 .
874 . gen a=1 if change_ari!=. & others!=.
      (114,080 missing values generated)
875 . bysort id: egen sum_a=sum(a)
876 . keep if sum_a==6
      (233,907 observations deleted)
877 .
878 . eststo: reghdfe others l.post#c.change_ari [aw = total_votes], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 216 singleton_observations)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 21 iterations)
note: l.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 151,770
Absorbing 4 HDFE groups    F( 1, 6502) = 5.38
Statistics robust to heteroskedasticity  Prob > F = 0.0204
                                      R-squared = 0.9621
                                      Adj R-squared = 0.9201
                                      Within R-sq. = 0.0002
Number of clusters (clues) = 6,503      Root MSE = 5.5366

```

(Std. err. adjusted for 6,503 clusters in clues)

others	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
l.post	0 (omitted)				
change_ari	0 (omitted)				
post#c.change_ari					
1	.1663028	.0717091	2.32	0.020	.0257293 .3068762
_cons	35.36042	.0105178	3361.95	0.000	35.3398 35.38104

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984
id#c.year	25295	0	25295 ?
id#c.year2	25295	0	25295 ?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est7 stored)

```

879 . estadd scalar N1 = e(N)
      added scalar:      e(N1) = 151770
880 . estadd scalar N2 = e(N)/6
      added scalar:      e(N2) = 25295
881 . estadd scalar N3 = e(N_clust)
      added scalar:      e(N3) = 6503
882 . estadd local district "\checkmark"
      added macro:      e(district) : "\checkmark"
883 . estadd local stateyear "\checkmark"
      added macro:      e(stateyear) : "\checkmark"
884 . estadd local linear " "
      added macro:      e(linear) : " "
885 . estadd local quadratic "\checkmark"
      added macro:      e(quadratic) : "\checkmark"
886 .
887 . restore
888 .
889 . preserve
890 .
891 . gen a=1 if change_ari_2!=. & others!=.
      (128,008 missing values generated)
892 . bysort id: egen sum_a=sum(a)
893 . keep if sum_a==6
      (242,157 observations deleted)
894 .
895 . eststo: reghdfe others l.post#c.change_ari_2 [aw = total_votes], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 240 singleton_observations)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_2 is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 112 iterations)
note: l.post omitted because of collinearity
note: change_ari_2 omitted because of collinearity

HDFE Linear regression      Number of obs = 143,496
Absorbing 4 HDFE groups    F( 1, 6143) = 4.25
Statistics robust to heteroskedasticity  Prob > F = 0.0393
                                      R-squared = 0.9620
                                      Adj R-squared = 0.9196
                                      Within R-sq. = 0.0001
Number of clusters (clues) = 6,144      Root MSE = 5.5559

```

(Std. err. adjusted for 6,144 clusters in clues)

Robust

others	Coefficient	std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari_z	0	(omitted)				
post#c.change_ari_z						
1	.0157068	.0076209	2.06	0.039	.0007671	.0306465
_cons	35.40028	.0065921	5370.12	0.000	35.38735	35.4132

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23916	23916	0 *
munid#year	3918	0	3918
id#_year	23916	0	23916 ?
id#c._year2	23916	0	23916 ?

? = number of redundant parameters may be higher

* = FE nested within cluster; treated as redundant for DoF computation
(est8 stored)

```

896 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 143496

897 . estadd scalar N2 = e(N)/6
added scalar:
      e(N2) = 23916

898 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 6144

899 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"

900 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"

901 . estadd local linear " "
added macro:
      e(linear) : " "

902 . estadd local quadratic "\checkmark"
added macro:
      e(quadratic) : "\checkmark"

903 .
904 . restore

905 .
906 . esttab est* using "$output/tableB3.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
> compress lines star* .1 ** .05 *** .01 label ///
> mgroups("2006-2009" "1997-2012", pattern(1 0 1 0 0 0 0) prefix{\multicolumn{#span}{c}{}} suffix{)} span erepeat(\cmidrule{1r}{#span}) ///
> b(49.3f) se(49.3f) stats(N1 N2 N3 district stateyear linear quadratic, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE" "Linear time trend" "Quadratic time trend") //
> /
> fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_z) ///
> coeflabels(1.post#c.change_ari "1[Year $\geq 2009] $\times$ Excess ARI cases (1000s)" ///
> 1.post#c.change_ari_z "1[Year $\geq 2009] $\times$ Excess ARI cases (z-score)" ///
> order(1.post#c.change_ari 1.post#c.change_ari_z) ///
> nopdevvars nomtitle prehead{\begin{tabular}{l*{9}{c}} \toprule} ///
> postfoot{\bottomrule \end{tabular}}
(output written to /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/tableB3.tex)

907 .
end of do-file

908 . do "/var/folders/q3/rmf9jk5n3lbfy0jr6bt7d3ch0000gn/T//SD58535.000000"

909 . *****
910 . * ELECTORAL REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK *
911 . *****
912 .
913 . // NOVEMBER 2, 2021
914 .
915 . // THIS FILE REPLICATES TABLES C1 AND C4-C8 IN APPENDIX C OF "ELECTORAL
916 . // REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK" BY
917 . // EMILIO GUTIÉRREZ, JAAKKO MERILÄINEN, AND ADRIÁN RUBLI
918 .
919 . global data "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/data" // Insert data directory here

920 . global output "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output" // Insert output directory here

921 .
922 . * Open data
923 .
924 . use "$data/GMR_data_main.dta", clear

925 .
926 . egen munid=group(estado municipio) // Generate an identifier for municipalities

927 . gen year2=year*year

928 .
929 . *****
930 .
931 . * Table C1
932 .
933 . est clear

934 .
935 . preserve

936 .
937 . keep if year==2006 | year==2009
(256,661 observations deleted)

938 . gen a=1 if change_ari!=. & PAN_voteshare!=.
(813 missing values generated)

939 . bysort id: egen sum_a=sum(a)

940 . keep if sum_a==2
(1,428 observations deleted)

941 .

```

```

942 . est clear
943 .
944 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
(dropped 434 singleton_observations)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 2 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 127,370
Absorbing 2 HDFE groups    F( 1, 16127) = 19.46
Statistics robust to heteroskedasticity    Prob > F = 0.0000
                                           R-squared = 0.9436
                                           Adj R-squared = 0.8787
                                           Within R-sq. = 0.0007
Number of clusters (clues) = 16,128      Root MSE = 5.5776
    
```

(Std. err. adjusted for 16,128 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari	0 (omitted)				
post#c.change_ari					
1	-.1938516	.0439466	-4.41	0.000	-.2799918 -.1077114
_cons	29.75932	.0080859	3680.39	0.000	29.74347 29.77517

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63685	63685	0 *
munid#year	4438	0	4438

* = FE nested within cluster; treated as redundant for DoF computation
(est1 stored)

```

945 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 127370
946 . estadd scalar N2 = e(N)/2
added scalar:
      e(N2) = 63685
947 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 16128
948 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"
949 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"
950 . estadd local linear " "
added macro:
      e(linear) : " "
951 . estadd local quadratic " "
added macro:
      e(quadratic) : " "
952 . restore
953 .
954 . preserve
955 .
956 . keep if year==2006 | year==2009
(256,661 observations deleted)
957 . gen a=1 if change_ari_2!=. & PAN_voteshare!=.
(7,085 missing values generated)
958 . bysort id: egen sum_a=sum(a)
959 . keep if sum_a==2
(7,658 observations deleted)
960 .
961 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
(dropped 460 singleton_observations)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 2 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

HDFE Linear regression      Number of obs = 121,114
Absorbing 2 HDFE groups    F( 1, 15339) = 9.75
Statistics robust to heteroskedasticity    Prob > F = 0.0018
                                           R-squared = 0.9433
                                           Adj R-squared = 0.8777
                                           Within R-sq. = 0.0003
Number of clusters (clues) = 15,340      Root MSE = 5.6124
    
```

(Std. err. adjusted for 15,340 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_z	0 (omitted)				
post#c.change_ari_z					
1	-.0157722	.00505	-3.12	0.002	-.0256708 -.0058736
_cons	29.71387	.0051688	5748.73	0.000	29.70374 29.72401

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60557	60557	0 *
munid#year	4382	0	4382

* = FE nested within cluster; treated as redundant for DoF computation
(est2 stored)

```

962 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 121114
963 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 60557
964 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15340
965 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
966 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
967 . estadd local linear " "
      added macro:
            e(linear) : " "
968 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
969 . restore
970 .
971 . preserve
972 .
973 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)
974 . bysort id: egen sum_a=sum(a)
975 . keep if sum_a==6
      (233,907 observations deleted)
976 .
977 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari, absorb(id i.munid#i.year) cluster(clues)
      (dropped 216 singleton_observations)
      note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 2 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 151,770
Absorbing 2 HDFE groups    F( 1, 6502) = 18.22
Statistics robust to heteroskedasticity    Prob > F = 0.0000
                                           R-squared = 0.9025
                                           Adj R-squared = 0.8792
                                           Within R-sq. = 0.0008
                                           Root MSE = 5.9409

Number of clusters (clues) = 6,503

      (Std. err. adjusted for 6,503 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari						
1	-.2989155	.0700287	-4.27	0.000	-.4361949	-.1616362
_cons	29.0684	.0082945	3504.54	0.000	29.05214	29.08466

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984

* = FE nested within cluster; treated as redundant for DoF computation
(est3 stored)

```

978 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 151770
979 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 25295
980 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6503
981 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
982 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
983 . estadd local linear " "
      added macro:
            e(linear) : " "

```

```

984 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
985 .
986 . restore
987 .
988 . preserve
989 .
990 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (128,008 missing values generated)
991 . bysort id: egen sum_a=sum(a)
992 . keep if sum_a==6
      (242,157 observations deleted)
993 .
994 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z, absorb(id i.munid#i.year) cluster(clues)
      (dropped 240 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (NMF estimator converged in 2 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDFE Linear regression                Number of obs = 143,496
      Absorbing 2 HDFE groups                F( 1, 6143) = 1.73
      Statistics robust to heteroskedasticity Prob > F = 0.1879
                                             R-squared = 0.9020
                                             Adj R-squared = 0.8784
                                             Within R-sq. = 0.0001
                                             Root MSE = 5.9686

      Number of clusters (clues) = 6,144      (Std. err. adjusted for 6,144 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari_z	0	(omitted)			
post#c.change_ari_z					
1	-.0141469	.010743	-1.32	0.188	-.0352068 .0069131
_cons	28.98573	.0075976	3815.12	0.000	28.97084 29.00062

```

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id           | 23916      | 23916      | 0              | *
| munid#year   | 3918       | 0          | 3918           |
+-----+-----+-----+-----+
* = FE nested within cluster; treated as redundant for DoF computation
(est4 stored)
995 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 143496
996 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23916
997 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6144
998 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
999 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1000 . estadd local linear " "
      added macro:
            e(linear) : " "
1001 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1002 .
1003 . restore
1004 .
1005 . preserve
1006 .
1007 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)
1008 . bysort id: egen sum_a=sum(a)
1009 . keep if sum_a==6
      (233,907 observations deleted)
1010 .
1011 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari, absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 216 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (NMF estimator converged in 3 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

      HDFE Linear regression                Number of obs = 151,770
      Absorbing 3 HDFE groups                F( 1, 6502) = 7.15
      Statistics robust to heteroskedasticity Prob > F = 0.0075
                                             R-squared = 0.9389
                                             Adj R-squared = 0.9045
                                             Within R-sq. = 0.0002
                                             Root MSE = 5.2809

      Number of clusters (clues) = 6,503

```

(Std. err. adjusted for 6,503 clusters in **clues**)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari						
1	-.1961525	.0733475	-2.67	0.008	-.3399378	-.0523672
_cons	29.05623	.0086876	3344.57	0.000	29.0392	29.07326

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984
id#c.year	25295	0	25295 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est5 stored)

```

1012 . estadd scalar N1 = e(N)
      added scalar:
           e(N1) = 151770

1013 . estadd scalar N2 = e(N)/6
      added scalar:
           e(N2) = 25295

1014 . estadd scalar N3 = e(N_clust)
      added scalar:
           e(N3) = 6503

1015 . estadd local district "\checkmark"
      added macro:
           e(district) : "\checkmark"

1016 . estadd local stateyear "\checkmark"
      added macro:
           e(stateyear) : "\checkmark"

1017 . estadd local linear "\checkmark"
      added macro:
           e(linear) : "\checkmark"

1018 . estadd local quadratic " "
      added macro:
           e(quadratic) : " "

1019 .
1020 . restore

1021 .
1022 .
1023 . preserve

1024 .
1025 . gen a=1 if change_ari_2!=. & PAN_voteshare!=.
      (128,008 missing values generated)

1026 . bysort id: egen sum_a=sum(a)

1027 . keep if sum_a==6
      (242,157 observations deleted)

1028 .
1029 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_2, absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 240 single-observation observations)
      note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_2 is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MFXE estimator converged in 3 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_2 omitted because of collinearity

      HDPE Linear regression                Number of obs = 143,496
      Absorbing 3 HDPE groups                F( 1, 6143) = 4.72
      Statistics robust to heteroskedasticity Prob > F = 0.0299
                                             R-squared = 0.9389
                                             Adj R-squared = 0.9045
                                             Within R-sq. = 0.0001
                                             Root MSE = 5.2903

      Number of clusters (clues) = 6,144
    
```

(Std. err. adjusted for 6,144 clusters in **clues**)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari_2	0	(omitted)				
post#c.change_ari_2						
1	-.014996	.0069028	-2.17	0.030	-.0285279	-.001464
_cons	28.98632	.0048818	5937.64	0.000	28.97676	28.9959

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23916	23916	0 *
munid#year	3918	0	3918
id#c.year	23916	0	23916 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est6 stored)

```

1030 . estadd scalar N1 = e(N)
      added scalar:
           e(N1) = 143496

1031 . estadd scalar N2 = e(N)/6
      added scalar:
    
```

```

e(N2) = 23916
1032 . estadd scalar N3 = e(N_clust)
added scalar:
e(N3) = 6144
1033 . estadd local district "\checkmark"
added macro:
e(district) : "\checkmark"
1034 . estadd local stateyear "\checkmark"
added macro:
e(stateyear) : "\checkmark"
1035 . estadd local linear "\checkmark"
added macro:
e(linear) : "\checkmark"
1036 . estadd local quadratic " "
added macro:
e(quadratic) : " "
1037 .
1038 . restore
1039 .
1040 . preserve
1041 .
1042 . gen a=1 if change_ari!=. & PAN_voteshare!=.
(114,080 missing values generated)
1043 . bysort id: egen sum_a=sum(a)
1044 . keep if sum_a==6
(233,907 observations deleted)
1045 .
1046 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari, absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
(dropped 216 singleton observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(HDFE estimation converged in 3 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 151,770
Absorbing 4 HDFE groups    F( 1, 6502) = 5.66
Statistics robust to heteroskedasticity    Prob > F = 0.0174
                                           R-squared = 0.9389
                                           Adj R-squared = 0.8709
                                           Within R-sq. = 0.0002
                                           Root MSE = 6.1401

Number of clusters (clues) = 6,503

(Std. err. adjusted for 6,503 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari 1	-.1961391	.0824187	-2.38	0.017	-.3577069	-.0345713
_cons	29.05623	.009762	2976.46	0.000	29.03709	29.07536

```

Absorbed degrees of freedom:

```

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25295	25295	0 *
munid#year	3984	0	3984
id#e.year	25295	0	25295 ?
id#c.year2	25295	0	25295 ?

```

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est7 stored)
1047 . estadd scalar N1 = e(N)
added scalar:
e(N1) = 151770
1048 . estadd scalar N2 = e(N)/6
added scalar:
e(N2) = 25295
1049 . estadd scalar N3 = e(N_clust)
added scalar:
e(N3) = 6503
1050 . estadd local district "\checkmark"
added macro:
e(district) : "\checkmark"
1051 . estadd local stateyear "\checkmark"
added macro:
e(stateyear) : "\checkmark"
1052 . estadd local linear " "
added macro:
e(linear) : " "
1053 . estadd local quadratic "\checkmark"
added macro:
e(quadratic) : "\checkmark"
1054 .
1055 . restore
1056 .
1057 . preserve
1058 .

```

```

1059 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (128,008 missing values generated)

1060 . bysort id: egen sum_a=sum(a)

1061 . keep if sum_a=6
      (242,157 observations deleted)

1062 .
1063 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z, absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 240 singleton observations)
note: lba.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 3 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

HDFE Linear regression                Number of obs = 143,496
Absorbing 4 HDFE groups                F( 1, 6143) = 3.74
Statistics robust to heteroskedasticity Prob > F = 0.0530
                                       R-squared = 0.9389
                                       Adj R-squared = 0.8708
                                       Within R-sq. = 0.0001
                                       Root MSE = 6.1528

Number of clusters (clues) = 6,144
                                (Std. err. adjusted for 6,144 clusters in clues)

+-----+-----+-----+-----+-----+
| PAN_voteshare | Coefficient | Robust | t | P>|t| | [95% conf. interval] |
+-----+-----+-----+-----+-----+
| 1.post         | 0 (omitted) |        |   |     |                      |
| change_ari_z   | 0 (omitted) |        |   |     |                      |
+-----+-----+-----+-----+-----+
| post#c.change_ari_z | -0.0150098 | 0.0077567 | -1.94 | 0.053 | -0.0302156 | 0.0001961 |
| 1             |             |             |      |      |             |             |
+-----+-----+-----+-----+-----+
| _cons         | 28.98634   | 0.0054857 | 5284.02 | 0.000 | 28.97559   | 28.99709   |
+-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id           | 23916     | 23916       | 0             | *
| munid#year   | 3918      | 0           | 3918          |
| id#c.year    | 23916     | 0           | 23916         | ?
| id#c.year2   | 23916     | 0           | 23916         | ?
+-----+-----+-----+-----+
? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est8 stored)

1064 . estadd scalar N1 = e(N)
      added scalar:
              e(N1) = 143496

1065 . estadd scalar N2 = e(N)/6
      added scalar:
              e(N2) = 23916

1066 . estadd scalar N3 = e(N_clust)
      added scalar:
              e(N3) = 6144

1067 . estadd local district "\checkmark"
      added macro:
              e(district) : "\checkmark"

1068 . estadd local stateyear "\checkmark"
      added macro:
              e(stateyear) : "\checkmark"

1069 . estadd local linear " "
      added macro:
              e(linear) : " "

1070 . estadd local quadratic "\checkmark"
      added macro:
              e(quadratic) : "\checkmark"

1071 .
1072 . restore

1073 .
1074 .
1075 . esttab est* using "$output/tableC1.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
      > compress lines star(*.1 ** .05 *** .01) label ///
      > mgroups("2006-2009" "1997-2012", pattern(1 0 1 0 0 0 0) prefix{\multicolumn{#span}{c}{}} suffix({}) span epeat(\cmdrule{1r}{#span})) ///
      > b(49.3f) se(49.3f) stats(N1 N2 N3 district stateyear linear quadratic, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE" "Linear time trend" "Quadratic time trend")) //
      > /
      > fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > coeLabels(1.post#c.change_ari "1[Year $%q$ 2009] $times$ Excess ARI cases (1000s)" ///
      > 1.post#c.change_ari_z "1[Year $%q$ 2009] $times$ Excess ARI cases (z-score)") ///
      > order(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > nodelvars nodelvars prehead(\begin{tabular}{l{9}{c}} \toprule) ///
      > postfoot(\bottomrule \end{tabular})
      (output written to /Users/jaakko/ Dropbox/jaakko_adrian_fmilio/submissions/toP/final/replication_materials/output/tableC1.tex)

1076 .
1077 . *****
1078 .
1079 . * Table C4
1080 .
1081 . est clear

1082 .
1083 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 2723 singleton observations)
note: lba.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 10 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression                Number of obs = 269,090
Absorbing 2 HDFE groups                F( 1, 16151) = 22.48
Statistics robust to heteroskedasticity Prob > F = 0.0000
                                       R-squared = 0.9350
                                       Adj R-squared = 0.9108
                                       Within R-sq. = 0.0006
                                       Root MSE = 4.7491

Number of clusters (clues) = 16,152

```

(Std. err. adjusted for 16,152 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari_1	-.1779631	.0375328	-4.74	0.000	-.2515315	-.1043947
_cons	29.82235	.0078478	3800.11	0.000	29.80697	29.83774

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	64294	64294	0 *
munid#year	8675	0	8675

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

1084 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 269090
1085 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 44848.333
1086 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16152
1087 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1088 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1089 . estadd local linear " "
      added macro:
            e(linear) : " "
1090 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1091 .
1092 . estat: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 2468 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MDFE estimator converged in 10 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDFE Linear regression                Number of obs = 255,417
      Absorbing 2 HDFE groups                F( 1, 15362) = 3.55
      Statistics robust to heteroskedasticity Prob > F = 0.0597
                                              R-squared = 0.9346
                                              Adj R-squared = 0.9100
                                              Within R-sq. = 0.0001
                                              Root MSE = 4.7743

      Number of clusters (clues) = 15,363
  
```

(Std. err. adjusted for 15,363 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari_z	0	(omitted)				
post#c.change_ari_z_1	-.0110677	.0058779	-1.88	0.060	-.022589	.0004536
_cons	29.82751	.0067885	4393.81	0.000	29.81421	29.84082

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	61126	61126	0 *
munid#year	8555	0	8555

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

1093 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 255417
1094 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 42569.5
1095 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15363
1096 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1097 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1098 . estadd local linear " "
  
```

```

added macro:
    e(linear) : " "
1099 . estadd local quadratic " "
added macro:
    e(quadratic) : " "
1100 .
1101 . eststo: reghdfe PAN_voteshare 1.post#*c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 2723 singleton observations)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 61 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

```

```

HDFE Linear regression           Number of obs = 269,090
Absorbing 3 HDFE groups         F( 1, 16151) = 7.05
Statistics robust to heteroskedasticity  Prob > F = 0.0079
                                   R-squared = 0.9637
                                   Adj R-squared = 0.9260
                                   Within R-sq. = 0.0002
                                   Root MSE = 4.3271

Number of clusters (clues) = 16,152
                                (Std. err. adjusted for 16,152 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari	0	(omitted)			
post#c.change_ari_1	-.153742	.0578916	-2.66	0.008	-.2672159 - .040268
_cons	29.81729	.0121046	2463.30	0.000	29.79356 29.84102

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	64294	64294	0 *
munid#year	8675	0	8675
id#c.year	64294	0	64294 ?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est3 stored)

```

1102 . estadd scalar N1 = e(N)
added scalar:
    e(N1) = 269090
1103 . estadd scalar N2 = e(N)/6
added scalar:
    e(N2) = 44848.333
1104 . estadd scalar N3 = e(N_clust)
added scalar:
    e(N3) = 16152
1105 . estadd local district "\checkmark"
added macro:
    e(district) : "\checkmark"
1106 . estadd local stateyear "\checkmark"
added macro:
    e(stateyear) : "\checkmark"
1107 . estadd local linear "\checkmark"
added macro:
    e(linear) : "\checkmark"
1108 . estadd local quadratic " "
added macro:
    e(quadratic) : " "

```

```

1109 .
1110 . eststo: reghdfe PAN_voteshare 1.post#*c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 2468 singleton observations)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 63 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

```

```

HDFE Linear regression           Number of obs = 255,417
Absorbing 3 HDFE groups         F( 1, 15362) = 4.93
Statistics robust to heteroskedasticity  Prob > F = 0.0264
                                   R-squared = 0.9636
                                   Adj R-squared = 0.9254
                                   Within R-sq. = 0.0001
                                   Root MSE = 4.3482

Number of clusters (clues) = 15,363
                                (Std. err. adjusted for 15,363 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari_z	0	(omitted)			
post#c.change_ari_z_1	-.0136393	.0061441	-2.22	0.026	-.0256825 - .0015961
_cons	29.83048	.007096	4203.83	0.000	29.81657 29.84439

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	61126	61126	0 *
munid#year	8555	0	8555
id#c.year	61126	0	61126 ?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est4 stored)

```

1111 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 255417
1112 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 42569.5
1113 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15363
1114 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1115 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1116 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"
1117 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "

```

```

1118 .
1119 . eststo: reghdfe PAN_voteshare 1.post#e.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 2723 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 62 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

      HDFE Linear regression
      Absorbing 4 HDFE groups
      Statistics robust to heteroskedasticity

      Number of obs = 269,090
      F( 1, 16151) = 4.74
      Prob > F = 0.0295
      R-squared = 0.9637
      Adj R-squared = 0.8555
      Within R-sq. = 0.0002
      Root MSE = 6.0457

      Number of clusters (clues) = 16,152

      (Std. err. adjusted for 16,152 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#e.change_ari						
1	-.1538076	.0706524	-2.18	0.029	-.2922942	-.0153211
_cons	29.8173	.0147728	2018.40	0.000	29.78835	29.84626

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	64294	64294	0 *
munid#year	8675	0	8675
id#c.year	64294	0	64294 ?
id#c.year2	64294	0	64294 ?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est5 stored)

```

1120 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 269090
1121 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 44848.333
1122 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16152
1123 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1124 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1125 . estadd local linear " "
      added macro:
            e(linear) : " "
1126 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"

```

```

1127 .
1128 . eststo: reghdfe PAN_voteshare 1.post#e.change_ari_z [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 2468 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 68 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDFE Linear regression
      Absorbing 4 HDFE groups
      Statistics robust to heteroskedasticity

      Number of obs = 255,417
      F( 1, 15362) = 3.31
      Prob > F = 0.0690
      R-squared = 0.9636

```

Adj R-squared = 0.8535
 Within R-sq. = 0.0001
 Root MSE = 6.0919
 Number of clusters (clues) = 15,363 (Std. err. adjusted for 15,363 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_2	0 (omitted)				
post#c.change_ari_2					
1	-.0136566	.0075099	-1.82	0.069	-.0283769 .0010638
_cons	29.8305	.0086735	3439.28	0.000	29.8135 29.8475

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	61126	61126	0 *
munid#year	8555	0	8555 *
id#c.year	61126	0	61126 ?
id#c.year2	61126	0	61126 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est6 stored)

```

1129 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 255417

1130 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 42569.5

1131 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15363

1132 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1133 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1134 . estadd local linear " "
      added macro:
            e(linear) : " "

1135 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"

1136 .
1137 . esttab est* using "foutput/tableC4.tex", replace noomit nobaselevels booktabs mlabels(none) ///
      > compress lines star* .1 ** .05 *** .01 label ///
      > b(49.3f) se(49.3f) stats(N1 N2 N3 district stateyear linear quadratic, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE" "Linear time trend" "Quadratic time trend")) //
      > /
      > fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_2) ///
      > coeflabels(1.post#c.change_ari "1[Year %q%q 2009] %times% Excess ARI cases (1000s)" ///
      > 1.post#c.change_ari_2 "1[Year %q%q 2009] %times% Excess ARI cases (z-score)") ///
      > order(1.post#c.change_ari 1.post#c.change_ari_2) ///
      > nodelvars nodelvars prehead(\begin{tabular}{l*{7}{c}} \toprule) ///
      > postfoot(\bottomrule \end{tabular})
      (output written to /Users/jaakko/Dropbox/jaakko_Adrian_Emilio/submissions/Top/final/replication_materials/output/tableC4.tex)

1138 .
1139 . *****
1140 .
1141 . * Table C5
1142 .
1143 . xtile pctl5 = change_ari, nq(100)
1144 . xtile pctl5_2 = change_ari_2, nq(100)
1145 .
1146 . preserve

1147 .
1148 . keep if year==2006 | year==2009
      (256,661 observations deleted)

1149 . keep if pctl5<=95 & pctl5_2>=5
      (12,255 observations deleted)

1150 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (76 missing values generated)

1151 . bysort id: egen sum_a=sum(a)

1152 . keep if sum_a==2
      (657 observations deleted)

1153 .
1154 . est clear

1155 .
1156 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 436 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (NMFPE estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

      HDPE Linear regression      Number of obs = 115,884
      Absorbing 2 HDPE groups      F( 1, 15478) = 30.81
      Statistics robust to heteroskedasticity      Prob > F = 0.0000
      R-squared = 0.9582
      Adj R-squared = 0.9095
      Within R-sq. = 0.0019
      Root MSE = 4.7504

      Number of clusters (clues) = 15,479

      (Std. err. adjusted for 15,479 clusters in clues)
    
```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari						
1	-.7222579	.1301186	-5.55	0.000	-.9773056	-.4672102
_cons	30.69862	.013772	2229.06	0.000	30.67163	30.72562

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	57942	57942	0 *
munid#year	4420	0	4420

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

1157 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 115884

1158 . estadd scalar N2 = e(N)/2
added scalar:
      e(N2) = 57942

1159 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 15479

1160 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"

1161 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"

1162 . estadd local linear " "
added macro:
      e(linear) : " "

1163 . estadd local quadratic " "
added macro:
      e(quadratic) : " "

1164 . restore
1165 .
1166 . preserve
1167 .
1168 . keep if year==2006 | year==2009
(256,661 observations deleted)

1169 . keep if pctlile2<=95 & pctlile2>=5
(18,021 observations deleted)

1170 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
(76 missing values generated)

1171 . bysort id: egen sum_a=sum(a)

1172 . keep if sum_a==2
(541 observations deleted)

1173 .
1174 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
(dropped 472 singleton_observations)
note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

```

HDPE Linear regression	Number of obs	=	110,198
Absorbing 2 HDPE groups	F(1, 14050)	=	15.78
Statistics robust to heteroskedasticity	Prob > F	=	0.0001
	R-squared	=	0.9592
	Adj R-squared	=	0.9115
	Within R-sq.	=	0.0009
	Root MSE	=	4.6908
Number of clusters (clues)	=	14,051	

(Std. err. adjusted for 14,051 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari_z	0	(omitted)				
post#c.change_ari_z						
1	-.0959552	.024155	-3.97	0.000	-.1433022	-.0486082
_cons	31.17148	.0152481	2044.29	0.000	31.14159	31.20137

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	55099	55099	0 *
munid#year	4304	0	4304

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

1175 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 110198

1176 . estadd scalar N2 = e(N)/2
added scalar:
      e(N2) = 55099

```

```

1177 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 14051
1178 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1179 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1180 . estadd local linear " "
      added macro:
            e(linear) : " "
1181 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1182 . restore
1183 .
1184 . preserve
1185 .
1186 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)
1187 . keep if pctl5<=95 & pctl95>=5
      (138,164 observations deleted)
1188 . bysort id: egen sum_a=sum(a)
1189 . keep if sum_a==6
      (109,309 observations deleted)
1190 .
1191 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 216 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE_2SLLM1M1C converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

      HDFE Linear regression           Number of obs = 138,204
      Absorbing 2 HDFE groups          F( 1, 6213) = 64.76
      Statistics robust to heteroskedasticity  Prob > F = 0.0000
                                           R-squared = 0.9262
                                           Adj R-squared = 0.9083
                                           Within R-sq. = 0.0044
      Number of clusters (clues) = 6,214   Root MSE = 5.1028

      (Std. err. adjusted for 6,214 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari_1	-1.604747	.199413	-8.05	0.000	-1.995666	-1.213829
_cons	30.69122	.0174322	1760.60	0.000	30.65705	30.72539

```

Absorbed degrees of freedom:
+-----+-----+-----+-----+
Absorbed FE | Categories | Redundant | = Num. Coefs
+-----+-----+-----+-----+
id           | 23034      | 23034     | 0 *
munid#year  | 3960       | 0         | 3960
+-----+-----+-----+-----+
* = FE nested within cluster; treated as redundant for DoF computation
(est3 stored)
1192 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 138204
1193 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23034
1194 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6214
1195 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1196 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1197 . estadd local linear " "
      added macro:
            e(linear) : " "
1198 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1199 .
1200 . restore
1201 .
1202 . preserve
1203 .
1204 . gen a=1 if change_ari_2!=. & PAN_voteshare!=.
      (128,008 missing values generated)

```

```

1205 . keep if pctliles2<=95 & pctliles2>=5
      (150,956 observations deleted)

1206 . bysort id: egen sum_a=sum(a)

1207 . keep if sum_a==6
      (103,903 observations deleted)

1208 .
1209 . eststo: reghdfe PAN_voteshare 1.post#*c.change_ari_z [aw = total_votos] if pctliles2<=95, absorb(id i.munid#i.year) cluster(clues)
      (dropped 234 singleton_observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

```

```

HDFE Linear regression           Number of obs   =   130,800
Absorbing 2 HDFE groups         F( 1, 5640)    =    10.37
Statistics robust to heteroskedasticity  Prob > F       =    0.0013
                                   R-squared       =    0.9277
                                   Adj R-squared    =    0.9101
                                   Within R-sq.    =    0.0006
                                   Root MSE     =    5.0550

Number of clusters (clues)     =    5,641
                                   (Std. err. adjusted for 5,641 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_z	0 (omitted)				
post#c.change_ari_z					
1	-.1114122	.0346052	-3.22	0.001	-.1792517 -.0435728
_cons	31.25468	.0181655	1720.55	0.000	31.21907 31.29029

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	21800	21800	0 *
munid#year	3894	0	3894

* = FE nested within cluster; treated as redundant for DoF computation (est4 stored)

```

1210 . estadd scalar N1 = e(N)
      added scalar:
           e(N1) = 130800

1211 . estadd scalar N2 = e(N)/6
      added scalar:
           e(N2) = 21800

1212 . estadd scalar N3 = e(N_clust)
      added scalar:
           e(N3) = 5641

1213 . estadd local district "\checkmark"
      added macro:
           e(district) : "\checkmark"

1214 . estadd local stateyear "\checkmark"
      added macro:
           e(stateyear) : "\checkmark"

1215 . estadd local linear " "
      added macro:
           e(linear) : " "

1216 . estadd local quadratic " "
      added macro:
           e(quadratic) : " "

1217 .
1218 . restore

1219 .
1220 . preserve

1221 .
1222 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)

1223 . keep if pctliles<=95 & pctliles>=5
      (138,164 observations deleted)

1224 . bysort id: egen sum_a=sum(a)

1225 . keep if sum_a==6
      (109,309 observations deleted)

1226 .
1227 . eststo: reghdfe PAN_voteshare 1.post#*c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 216 singleton_observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 22 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

```

```

HDFE Linear regression           Number of obs   =   138,204
Absorbing 3 HDFE groups         F( 1, 6213)    =    1.23
Statistics robust to heteroskedasticity  Prob > F       =    0.2677
                                   R-squared       =    0.9557
                                   Adj R-squared    =    0.9306
                                   Within R-sq.    =    0.0001
                                   Root MSE     =    4.4394

Number of clusters (clues)     =    6,214
                                   (Std. err. adjusted for 6,214 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari	0 (omitted)				
post#c.change_ari					

1	-.2664957	.240407	-1.11	0.268	-.7377766	.2047852
_cons	30.57423	.0210158	1454.82	0.000	30.53304	30.61543

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23034	23034	0 *
munid#year	3960	0	3960 *
id#c.year	23034	0	23034 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est5 stored)

```

1228 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 138204

1229 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23034

1230 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6214

1231 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1232 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1233 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"

1234 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "

1235 .
1236 . restore

1237 .
1238 .
1239 . preserve

1240 .
1241 . gen a=1 if change_ari_z!=. & PAM_voteshare!=.
      (128,008 missing values generated)

1242 . keep if pctiles2<=95 & pctiles2>=5
      (150,956 observations deleted)

1243 . bysort id: egen sum_a=sum(a)

1244 . keep if sum_a==6
      (103,903 observations deleted)

1245 .
1246 . eststo: reghdfc PAM_voteshare 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 234 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MLE estimator converged in 24 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity
    
```

```

HDFE Linear regression           Number of obs = 130,800
Absorbing 3 HDFE groups         F( 1, 5640) = 0.79
Statistics robust to heteroskedasticity   Prob > F = 0.3753
                                      R-squared = 0.9571
                                      Adj R-squared = 0.9326
                                      Within R-sq. = 0.0000
                                      Root MSE = 4.3750
    
```

(Std. err. adjusted for 5,641 clusters in clues)

	PAM_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post		0	(omitted)			
change_ari_z		0	(omitted)			
post#c.change_ari_z	1	-.0398093	.0448995	-0.89	0.375	-.1278296 .0482111
_cons		31.21709	.0235694	1324.47	0.000	31.17089 31.2633

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	21800	21800	0 *
munid#year	3894	0	3894 *
id#c.year	21800	0	21800 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est6 stored)

```

1247 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 130800

1248 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 21800

1249 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 5641
    
```

```

1250 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1251 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1252 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"
1253 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1254 .
1255 . restore
1256 .
1257 . preserve
1258 .
1259 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)
1260 . keep if pctl5<=95 & pctl5>=5
      (138,164 observations deleted)
1261 . bysort id: egen sum_a=sum(a)
1262 . keep if sum_a==6
      (109,309 observations deleted)
1263 .
1264 . eststo: reghdfe PAN_voteshare i.post#*c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 216 singleton_observations)
      note: i.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MFXE estimator converged in 24 iterations)
      note: i.post omitted because of collinearity
      note: change_ari omitted because of collinearity

      HDPE Linear regression                Number of obs =   138,204
      Absorbing 4 HDPE groups                F(   1, 6213) =    0.96
      Statistics robust to heteroskedasticity Prob > F      =    0.3260
                                             R-squared    =    0.9557
                                             Adj R-squared =    0.9061
                                             Within R-sq. =    0.0001
                                             Root MSE    =    5.1651

      Number of clusters (clues) =    6,214      Root MSE =    5.1651
                                             (Std. err. adjusted for 6,214 clusters in clues)

+-----+-----+-----+-----+-----+-----+
| PAN_voteshare | Coefficient | Robust | t | P>|t| | [95% conf. interval] |
+-----+-----+-----+-----+-----+-----+
| 1.post        | 0 (omitted) |        |   |     |                       |
| change_ari    | 0 (omitted) |        |   |     |                       |
| post#c.change_ari |          |          |   |     |                       |
| 1            | -2653772    | .2701722 | -0.98 | 0.326 | -7950082 .2642538 |
| _cons        | 30.57414    | .0236178 | 1294.54 | 0.000 | 30.52784 30.62044 |
+-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id          | 23034      | 23034       | 0             | *
| munid#year  | 3960       | 0           | 3960          | ?
| id#c.year   | 23034      | 0           | 23034         | ?
| id#c.year2  | 23034      | 0           | 23034         | ?
+-----+-----+-----+-----+
? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est7 stored)

1265 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 138204
1266 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23034
1267 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6214
1268 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1269 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1270 . estadd local linear " "
      added macro:
            e(linear) : " "
1271 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"
1272 .
1273 . restore
1274 .
1275 . preserve
1276 .
1277 . gen a=1 if change_ari2!=. & PAN_voteshare!=.
      (128,008 missing values generated)

```

```

1278 . keep if pctlies2<=95 & pctlies2>=5
      (150,956 observations deleted)

1279 . bysort id: egen sum_a=sum(a)

1280 . keep if sum_a=6
      (103,903 observations deleted)

1281 .
1282 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votes], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 234 singleton observations)
      note: lba.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MFE estimator converged in 76 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDFE Linear regression                Number of obs   =   130,800
      Absorbing 4 HDFE groups              F( 1, 5640)    =    0.62
      Statistics robust to heteroskedasticity  Prob > F       =   0.4312
                                          R-squared      =   0.9571
                                          Adj R-squared  =   0.9087
                                          Within R-sq.   =   0.0000
                                          Root MSE      =   5.0917

      Number of clusters (clues) = 5,641
                                     (Std. err. adjusted for 5,641 clusters in clues)

      +-----+-----+-----+-----+-----+-----+
      | PAN_voteshare | Coefficient | Robust | t | P>|t| | [95% conf. interval] |
      |-----+-----+-----+-----+-----+-----+
      | 1.post         | 0 (omitted) |        |   |     |                       | |
      | change_ari_z  | 0 (omitted) |        |   |     |                       |
      | post#c.change_ari_z | -0.0397331 | 0.0504791 | -0.79 | 0.431 | -0.1386915 | 0.0592252 |
      | 1             |             |         |    |     |                       |
      | _cons         | 31.21705   | 0.0264983 | 1178.08 | 0.000 | 31.1651    | 31.269    |
      +-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id          | 21800     | 21800       | 0             | *
| munid#year  | 3894      | 0           | 3894          | ?
| id#c.year   | 21800     | 0           | 21800         | ?
| id#c.year2  | 21800     | 0           | 21800         | ?
+-----+-----+-----+-----+
? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est8 stored)

1283 . estadd scalar N1 = e(N)
      added scalar:
              e(N1) = 130800

1284 . estadd scalar N2 = e(N)/6
      added scalar:
              e(N2) = 21800

1285 . estadd scalar N3 = e(N_clust)
      added scalar:
              e(N3) = 5641

1286 . estadd local district "\checkmark"
      added macro:
              e(district) : "\checkmark"

1287 . estadd local stateyear "\checkmark"
      added macro:
              e(stateyear) : "\checkmark"

1288 . estadd local linear " "
      added macro:
              e(linear) : " "

1289 . estadd local quadratic "\checkmark"
      added macro:
              e(quadratic) : "\checkmark"

1290 .
1291 . restore

1292 .
1293 . esttab est* using "output/tableC5.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
      > compress lines star(*.1 ** .05 *** .01) label ///
      > mgroups("2006-2009" "1997-2012", pattern(1 0 1 0 0 0 0) prefix(\multicolumn{#span}{c}{}) suffix({}) span erepeat(\cmdrule{lr}{#span}) ///
      > b(49.3f) se(49.3f) stats(N1 N2 N3 district stateyear linear quadratic, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE" "Linear time trend" "Quadratic time trend") //
      > /
      > fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > coeflabels(1.post#c.change_ari "1[Year $\geq$ 2009] $\times$ Excess ARI cases (1000s)" ///
      > 1.post#c.change_ari_z "1[Year $\geq$ 2009] $\times$ Excess ARI cases (z-score)" ///
      > order(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > nodelvars nomtitle prehead(\begin{tabular}{l{9}{c}} \toprule) ///
      > postfoot(\bottomrule \end{tabular})
      (output written to /Users/Jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/tableC5.tex)

1294 .
1295 . *****
1296 .
1297 . * Table C6
1298 .
1299 . preserve

1300 .
1301 . keep if year==2006 | year==2009
      (256,661 observations deleted)

1302 . keep if pctlies<=99 & pctlies>=1
      (1,969 observations deleted)

1303 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (85 missing values generated)

1304 . bysort id: egen sum_a=sum(a)

1305 . keep if sum_a=2
      (695 observations deleted)

1306 .
1307 . est clear

```

```

1308 .
1309 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 434 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWFE_estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity
  
```

```

HDFE Linear regression           Number of obs = 126,134
Absorbing 2 HDFE groups         F( 1, 16092) = 19.01
Statistics robust to heteroskedasticity  Prob > F = 0.0000
                                   R-squared = 0.9592
                                   Adj R-squared = 0.9123
                                   Within R-sq. = 0.0010
                                   Root MSE = 4.6661

Number of clusters (clues) = 16,093
                                   (Std. err. adjusted for 16,093 clusters in clues)
  
```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari	0	(omitted)			
post#c.change_ari					
1	-.2320595	.0532185	-4.36	0.000	-.3363737 -.1277452
_cons	30.94041	.0079716	3881.34	0.000	30.92478 30.95603

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	63067	63067	0 *
munid#year	4438	0	4438

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

1310 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 126134

1311 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 63067

1312 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16093

1313 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1314 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1315 . estadd local linear " "
      added macro:
            e(linear) : " "

1316 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "

1317 . restore

1318 .
1319 . preserve

1320 .
1321 . keep if year==2006 | year==2009
      (256,661 observations deleted)

1322 . keep if pctlile2<=9 & pctlile2>=1
      (8,134 observations deleted)

1323 . gen a=1 if change_ari_2!=. & PAN_voteshare!=.
      (86 missing values generated)

1324 . bysort id: egen sum_a=sum(a)

1325 . keep if sum_a=2
      (658 observations deleted)
  
```

```

1326 .
1327 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 456 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWFE_estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity
  
```

```

HDFE Linear regression           Number of obs = 119,984
Absorbing 2 HDFE groups         F( 1, 15239) = 14.52
Statistics robust to heteroskedasticity  Prob > F = 0.0001
                                   R-squared = 0.9590
                                   Adj R-squared = 0.9119
                                   Within R-sq. = 0.0007
                                   Root MSE = 4.6902

Number of clusters (clues) = 15,240
                                   (Std. err. adjusted for 15,240 clusters in clues)
  
```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari_z	0	(omitted)			
post#c.change_ari_z					
1	-.0488893	.0128316	-3.81	0.000	-.0740408 -.0237378
_cons	31.01039	.0093293	3323.99	0.000	30.99211 31.02868

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	59992	59992	0 *
munid#year	4378	0	4378

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

1328 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 119984
1329 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 59992
1330 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15240
1331 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1332 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1333 . estadd local linear " "
      added macro:
            e(linear) : " "
1334 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1335 . restore
1336 .
1337 . preserve
1338 .
1339 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)
1340 . keep if pctiles<=99 & pctiles>=1
      (116,430 observations deleted)
1341 . bysort id: egen sum_a=sum(a)
1342 . keep if sum_a==6
      (118,983 observations deleted)
1343 .
1344 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#year) cluster(clues)
      (dropped 216 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

```

```

HDFE Linear regression           Number of obs = 150,264
Absorbing 2 HDFE groups         F( 1, 6481) = 14.10
Statistics robust to heteroskedasticity   Prob > F = 0.0002
                                         R-squared = 0.9274
                                         Adj R-squared = 0.9100
                                         Within R-sq. = 0.0009
Number of clusters (clues) = 6,482       Root MSE = 5.0479

```

(Std. err. adjusted for 6,482 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari	0	(omitted)				
post#c.change_ari						
1	-.3388508	.0902385	-3.76	0.000	-.515748	-.1619535
_cons	30.99802	.0107071	2895.09	0.000	30.97703	31.01901

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25044	25044	0 *
munid#year	3984	0	3984

* = FE nested within cluster; treated as redundant for DoF computation (est3 stored)

```

1345 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 150264
1346 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 25044
1347 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6482
1348 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1349 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

```

```

1350 . estadd local linear " "
      added macro:
            e(linear) : " "
1351 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1352 .
1353 . restore
1354 .
1355 . preserve
1356 .
1357 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (128,008 missing values generated)
1358 . keep if pctliles2<=99 & pctliles2>=1
      (130,223 observations deleted)
1359 . bysort id: egen sum_a=sum(a)
1360 . keep if sum_a==6
      (113,308 observations deleted)
1361 .
1362 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votos] if pctliles2<=99, absorb(id i.munid#i.year) cluster(clues)
      (dropped 234 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWFE_estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDFE Linear regression      Number of obs = 142,128
      Absorbing 2 HDFE groups      F( 1, 6104) = 9.34
      Statistics robust to heteroskedasticity      Prob > F = 0.0023
                                                    R-squared = 0.9270
                                                    Adj R-squared = 0.9094
                                                    Within R-sq. = 0.0006
      Number of clusters (clues) = 6,105      Root MSE = 5.0686

      (Std. err. adjusted for 6,105 clusters in clues)

      +-----+-----+-----+-----+-----+-----+
      PAN_voteshare      Coefficient      Robust      t      P>|t|      [95% conf. interval]
                        |      |      |      |      |      |
      1.post              0      (omitted)
      change_ari_z        0      (omitted)
      post#c.change_ari_z
      1                  -.0646715      .0211663      -3.06      0.002      -.106165      -.0231781
      _cons               31.02486      .0126637      2449.91      0.000      31.00003      31.04968
      +-----+-----+-----+-----+-----+

      Absorbed degrees of freedom:
      +-----+-----+-----+-----+
      Absorbed FE      Categories      - Redundant      = Num. Coefs
      +-----+-----+-----+-----+
      id               23688              23688              0      *
      munid#year       3918                0                3918
      +-----+-----+-----+-----+
      * = FE nested within cluster; treated as redundant for DoF computation
      (est4 stored)
1363 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 142128
1364 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23688
1365 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6105
1366 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1367 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1368 . estadd local linear " "
      added macro:
            e(linear) : " "
1369 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1370 .
1371 . restore
1372 .
1373 . preserve
1374 .
1375 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)
1376 . keep if pctliles<=99 & pctliles>=1
      (116,430 observations deleted)
1377 . bysort id: egen sum_a=sum(a)
1378 . keep if sum_a==6
      (118,983 observations deleted)
1379 .
1380 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 216 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWFE_estimator converged in 24 iterations)

```

note: 1.post omitted because of collinearity
 note: change_ari omitted because of collinearity

```

HDFE Linear regression                Number of obs = 150,264
Absorbing 3 HDFE groups               F( 1, 6481) = 3.33
Statistics robust to heteroskedasticity Prob > F = 0.0682
                                        R-squared = 0.9567
                                        Adj R-squared = 0.9324
                                        Within R-sq. = 0.0001
                                        Root MSE = 4.3759
    
```

Number of clusters (clues) = 6,482 (Std. err. adjusted for 6,482 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari	0	(omitted)			
post#c.change_ari_1	-.1673236	.0917301	-1.82	0.068	-.347145 .0124977
_cons	30.97766	.0108841	2846.15	0.000	30.95633 30.999

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	25044	25044	0 *
munid#year	3984	0	3984
id#c.year	25044	0	25044 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation (est5 stored)

```

1381 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 150264
1382 . estadd scalar N2 = e(N)/6
added scalar:
      e(N2) = 25044
1383 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 6482
1384 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"
1385 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"
1386 . estadd local linear "\checkmark"
added macro:
      e(linear) : "\checkmark"
1387 . estadd local quadratic " "
added macro:
      e(quadratic) : " "
1388 .
1389 . restore
1390 .
1391 .
1392 . preserve
1393 .
1394 . gen a=1 if change_ari_2!=. & PAN_voteshare!=.
      (128,008 missing values generated)
1395 . keep if pctlile2<=99 & pctlile2>=1
      (130,223 observations deleted)
1396 . bysort id: egen sum_a=sum(a)
1397 . keep if sum_a=6
      (113,308 observations deleted)
1398 .
1399 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votes], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 234 singleton observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE_estimator converged in 26 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity
    
```

```

HDFE Linear regression                Number of obs = 142,128
Absorbing 3 HDFE groups               F( 1, 6104) = 1.17
Statistics robust to heteroskedasticity Prob > F = 0.2790
                                        R-squared = 0.9566
                                        Adj R-squared = 0.9321
                                        Within R-sq. = 0.0001
                                        Root MSE = 4.3866
    
```

Number of clusters (clues) = 6,105 (Std. err. adjusted for 6,105 clusters in clues)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0	(omitted)			
change_ari_2	0	(omitted)			
post#c.change_ari_z_1	-.0273024	.0252202	-1.08	0.279	-.0767429 .022138
_cons	31.0025	.0150891	2054.63	0.000	30.97292 31.03208

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	23688	23688	0 *
munid#year	3918	0	3918

```

id#c.year | 23688      0      23688  ?
? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est6 stored)

1400 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 142128

1401 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23688

1402 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6105

1403 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1404 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1405 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"

1406 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "

1407 .
1408 . restore
1409 .
1410 . preserve

1411 .
1412 . gen a=1 if change_ari!=. & PAN_voteshare!=.
      (114,080 missing values generated)

1413 . keep if pctl5<=99 & pctl5>=1
      (116,430 observations deleted)

1414 . bysort id: egen sum_a=sum(a)

1415 . keep if sum_a=6
      (118,983 observations deleted)

1416 .
1417 . estat: reghdfe PAN_voteshare 1.post#c.change_ari [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 216 singleton observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 21 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

      HDFE Linear regression          Number of obs = 150,264
      Absorbing 4 HDFE groups          F( 1, 6481) = 2.64
      Statistics robust to heteroskedasticity  Prob > F = 0.1045
                                          R-squared = 0.9567
                                          Adj R-squared = 0.9086
                                          Within R-sq. = 0.0001
      Number of clusters (clues) = 6,482  Root MSE = 5.0882

      (Std. err. adjusted for 6,482 clusters in clues)

+-----+-----+-----+-----+-----+-----+
| PAN_voteshare | Coefficient | Robust | t | P>|t| | [95% conf. interval] |
| change_ari    | 0 (omitted) | std. err. |   |      |                       |
| post#c.change_ari | -1.1673121 | .1030561 | -1.62 | 0.105 | -1.3693361 .0347118 |
| _cons        | 30.97766   | .0122279 | 2533.35 | 0.000 | 30.95369 31.00163 |
+-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
| id          | 25044      | 25044       | 0             | *
| munid#year  | 3984       | 0           | 3984          |
| id#c.year   | 25044      | 0           | 25044         | ?
| id#c.year2  | 25044      | 0           | 25044         | ?
+-----+-----+-----+-----+

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est7 stored)

1418 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 150264

1419 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 25044

1420 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6482

1421 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1422 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

```

```

1423 . estadd local linear " "
      added macro:
            e(linear) : " "
1424 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"

1425 .
1426 . restore

1427 .
1428 . preserve

1429 .
1430 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
      (128,008 missing values generated)

1431 . keep if pctlile2<=99 & pctlile2>=1
      (130,223 observations deleted)

1432 . bysort id: egen sum_a=sum(a)

1433 . keep if sum_a=6
      (113,308 observations deleted)

1434 .
1435 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 234 singleton_observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 108 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDFE Linear regression      Number of obs = 142,128
      Absorbing 4 HDFE groups      F( 1, 6104) = 0.93
      Statistics robust to heteroskedasticity      Prob > F = 0.3357
                                                    R-squared = 0.9566
                                                    Adj R-squared = 0.9082
                                                    Within R-sq. = 0.0001
      Number of clusters (clues) = 6,105      Root MSE = 5.1021

      (Std. err. adjusted for 6,105 clusters in clues)

      +-----+-----+-----+-----+-----+-----+
      | PAN_voteshare | Coefficient | Robust | t | P>|t| | [95% conf. interval] |
      |-----+-----+-----+-----+-----+-----+
      | 1.post        | 0 (omitted) |        |   |     |                       | |
      | change_ari_z | 0 (omitted) |        |   |     |                       |
      | post#c.change_ari_z | -0.272872 | 0.283411 | -0.96 | 0.336 | --0.828457 | 0.282713 |
      | 1            |              |              |      |      |              |          |
      | _cons        | 31.00249   | 0.169563 | 1828.37 | 0.000 | 30.96925   | 31.03573 |
      +-----+-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | Redundant | Num. Coefs |
+-----+-----+-----+-----+
| id          | 23688      | 23688     | 0          | *
| munid#year  | 3918       | 0         | 3918       |
| id#c.year   | 23688      | 0         | 23688     | ?
| id#c.year2  | 23688      | 0         | 23688     | ?
+-----+-----+-----+-----+
? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est8 stored)

1436 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 142128

1437 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 23688

1438 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 6105

1439 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1440 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1441 . estadd local linear " "
      added macro:
            e(linear) : " "

1442 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"

1443 .
1444 . restore

1445 .
1446 . esttab est* using "output/tableC6.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
      > compress lines star(*.1 ** .05 *** .01) label ///
      > mgroups("2006-2009" "1997-2012", pattern(1 0 1 0 0 0 0) prefix\multicolumn\{span}\{suffix\} span epeat(\cmidrule\{1r\}\{span\}) ///
      > b(49.3f) se(49.3f) stats(N1 N2 N3 district stateyear linear quadratic, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE" "Linear time trend" "Quadratic time trend")) //
      > /
      > fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > coeflabels(1.post#c.change_ari "1[Year $\year$ 2009] $\times$ Excess ARI cases (1000s)" ///
      > 1.post#c.change_ari_z "1[Year $\year$ 2009] $\times$ Excess ARI cases (z-score)") ///
      > order(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > nodepvars nontitle prehead(\begin{tabular}\{1\}\{c\} \toprule) ///
      > postfoot(\bottomrule \end{tabular})
      (output written to /Users/jaakko/Dropbox/jaakko_adrian_fmilio/submissions/JoP/final/replication_materials/output/tableC6.tex)

1447 .
1448 . *****
1449 .
1450 . * Table C7

```

```

1451 .
1452 . est clear
1453 .
1454 . preserve
1455 .
1456 . keep if year==2006 | year==2009
      (256,661 observations deleted)
1457 . gen a=1 if excess_deaths!=. & PAN_voteshare!=.
      (86,356 missing values generated)
1458 . bysort id: egen sum_a=sum(a)
1459 . keep if sum_a==2
      (86,408 observations deleted)
1460 .
1461 . eststo: reghdfe PAN_voteshare 1.post#c.excess_deaths [aw = total_votos] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
      (dropped 876 singleton_observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: excess_deaths is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWFE_estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: excess_deaths omitted because of collinearity

HDFE Linear regression      Number of obs = 41,940
Absorbing 2 HDFE groups    F( 1, 12267) = 33.03
Statistics robust to heteroskedasticity  Prob > F = 0.0000
                                          R-squared = 0.9440
                                          Adj R-squared = 0.8616
                                          Within R-sq. = 0.0033
                                          Root MSE = 6.2354

Number of clusters (clues) = 12,268
      (Std. err. adjusted for 12,268 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]		
1.post	0 (omitted)						
excess_deaths	0 (omitted)						
post#c.excess_deaths	1	-.0070725	.0012306	-5.75	0.000	-.0094847	-.0046604
_cons		27.58261	.0059395	4643.94	0.000	27.57097	27.59426

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	20970	20970	0 *
munid#year	3994	0	3994

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

1462 . estadd scalar N1 = e(N)
      added scalar:
          e(N1) = 41940
1463 . estadd scalar N2 = e(N)/2
      added scalar:
          e(N2) = 20970
1464 . estadd scalar N3 = e(N_clust)
      added scalar:
          e(N3) = 12268
1465 . estadd local district "\checkmark"
      added macro:
          e(district) : "\checkmark"
1466 . estadd local stateyear "\checkmark"
      added macro:
          e(stateyear) : "\checkmark"
1467 . estadd local linear " "
      added macro:
          e(linear) : " "
1468 . estadd local quadratic " "
      added macro:
          e(quadratic) : " "
1469 . restore
1470 .
1471 . preserve
1472 .
1473 . gen a=1 if excess_deaths!=. & PAN_voteshare!=.
      (297,317 missing values generated)
1474 . bysort id: egen sum_a=sum(a)
1475 . keep if sum_a==6
      (338,379 observations deleted)
1476 .
1477 . eststo: reghdfe PAN_voteshare 1.post#c.excess_deaths [aw = total_votos], absorb(id i.munid#i.year) cluster(clues)
      (dropped 636 singleton_observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: excess_deaths is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWFE_estimator converged in 8 iterations)
      note: 1.post omitted because of collinearity
      note: excess_deaths omitted because of collinearity

HDFE Linear regression      Number of obs = 46,866
Absorbing 2 HDFE groups    F( 1, 4619) = 40.10
Statistics robust to heteroskedasticity  Prob > F = 0.0000
                                          R-squared = 0.8956
                                          Adj R-squared = 0.8623
                                          Within R-sq. = 0.0047
                                          Root MSE = 6.3895

Number of clusters (clues) = 4,620
      (Std. err. adjusted for 4,620 clusters in clues)

```

Robust

PAN_voteshare	Coefficient	std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
excess_deaths	0	(omitted)				
post#c.excess_deaths						
1	-.0122381	.0019325	-6.33	0.000	-.0160268	-.0084495
_cons	24.97551	.0071314	3502.20	0.000	24.96153	24.98949

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	7811	7811	0 *
munid#year	3534	0	3534

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

1478 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 46866

1479 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 7811

1480 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 4620

1481 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1482 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1483 . estadd local linear " "
      added macro:
            e(linear) : " "

1484 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "

1485 .
1486 . restore
1487 .
1488 . preserve
1489 .
1490 . gen a=1 if excess_deaths!=. & PAN_voteshare!=.
      (297,317 missing values generated)

1491 . bysort id: egen sum_a=sum(a)

1492 . keep if sum_a==6
      (338,379 observations deleted)

1493 .
1494 . eststo: reghdfe PAN_voteshare 1.post#c.excess_deaths [aw = total_votos], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 636 unrelated observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: excess_deaths is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWFE estimator converged in 26 iterations)
      note: 1.post omitted because of collinearity
      note: excess_deaths omitted because of collinearity

      HDPE Linear regression           Number of obs = 46,866
      Absorbing 3 HDPE groups          F( 1, 4619) = 14.93
      Statistics robust to heteroskedasticity   Prob > F = 0.0001
                                           R-squared = 0.9325
                                           Adj R-squared = 0.8859
                                           Within R-sq. = 0.0003
                                           Root MSE = 5.8179

      Number of clusters (clues) = 4,620

      (Std. err. adjusted for 4,620 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
excess_deaths	0	(omitted)				
post#c.excess_deaths						
1	-.0046976	.0012156	-3.86	0.000	-.0070807	-.0023145
_cons	24.94768	.0044857	5561.65	0.000	24.93889	24.95648

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	7811	7811	0 *
munid#year	3534	0	3534
id#c.year	7811	0	7811 ?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation (est3 stored)

```

1495 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 46866

1496 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 7811

1497 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 4620

```

```

1498 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1499 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1500 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"
1501 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1502 .
1503 . restore
1504 .
1505 . preserve
1506 .
1507 . gen a=1 if excess_deaths!=. & PAN_voteshare!=.
      (297,317 missing values generated)
1508 . bysort id: egen sum_a=sum(a)
1509 . keep if sum_a==6
      (338,379 observations deleted)
1510 .
1511 . eststo: reghdfe PAN_voteshare l.post#f.c.excess_deaths [aw = total_votos], absorb(id i.munid#i.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 636 singleton observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: excess_deaths is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimator converged in 22 iterations)
      note: l.post omitted because of collinearity
      note: excess_deaths omitted because of collinearity

HDFE Linear regression                Number of obs =    46,866
Absorbing 4 HDFE groups                F( 1, 4619) =    11.57
Statistics robust to heteroskedasticity Prob > F =    0.0007
                                         R-squared =    0.9325
                                         Adj R-squared =    0.8410
                                         Within R-sq. =    0.0003
                                         Root MSE =    6.8655

Number of clusters (clues) =    4,620

(Std. err. adjusted for 4,620 clusters in clues)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
l.post	0 (omitted)					
excess_deaths	0 (omitted)					
post#f.c.excess_deaths						
1	-.0046896	.0013784	-3.40	0.001	-.007392	-.0019872
_cons	24.94765	.0050867	4904.47	0.000	24.93768	24.95763

```

Absorbed degrees of freedom:

```

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	7811	7811	0 *
munid#year	3534	0	3534
id#c.year	7811	0	7811 ?
id#c.year2	7811	0	7811 ?

```

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est4 stored)
1512 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 46866
1513 . estadd scalar N2 = e(N)/6
      added scalar:
            e(N2) = 7811
1514 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 4620
1515 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1516 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1517 . estadd local linear " "
      added macro:
            e(linear) : " "
1518 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"
1519 .
1520 . restore
1521 .
1522 .
1523 . esttab est* using "soutput/tableC7.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
      > compress lines star(* .1 ** .05 *** .01) label ///
      > mgroups("2006-2009" "1997-2012", pattern(1 1 0 0) prefix(\multicolumn{#span}{c}{}) suffix{)} span erepeat(\cmdrule{lr}{#span})) ///
      > b(49.3f) se(49.3f) stats(N1 N2 N3 district stateyear linear quadratic, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE" "Linear time trend" "Quadratic time trend")) //
      > /
      > fmt(0 0 0) keep(l.post#f.c.excess_deaths) ///
      > coeflabels(l.post#f.c.excess_deaths "l|Year $\geq$ 2009) $\times$ Excess deaths" ///
      > nodelvars nomtitle prehead(\begin{tabular}{l*{6}{c}} \toprule) ///

```

```

> postfoot(\bottomrule \end{tabular})
(output written to /Users/jaakko/Dropbox/jaakko_Adrian_Emilio/submissions/10P/final/replication_materials/output/tablec7.tex)

1524 .
1525 . *****
1526 .
1527 . * Table C8
1528 .
1529 . preserve

1530 .
1531 . keep if year==2006 | year==2009
(256,661 observations deleted)

1532 . gen a=1 if change_ari!=. & turnout!=.
(869 missing values generated)

1533 . bysort id: egen sum_a=sum(a)

1534 . keep if sum_a==2
(1,538 observations deleted)

1535 .
1536 . est clear

1537 .
1538 . eststo: reghdfe turnout 1.post#c.change_ari [aw = total_votes] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
(dropped 455 singleton_observations)
note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 127,218
Absorbing 2 HDFE groups    F( 1, 16120) = 24.85
Statistics robust to heteroskedasticity  Prob > F = 0.0000
R-squared = 0.9536
Adj R-squared = 0.9002
Within R-sq. = 0.0016
Root MSE = 3.7974

Number of clusters (clues) = 16,121      Root MSE = 3.7974
(Std. err. adjusted for 16,121 clusters in clues)

```

turnout	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari	0 (omitted)					
post#c.change_ari						
1	-.1862335	.0373556	-4.99	0.000	-.2594546	-.1130124
_cons	54.21638	.006833	7934.49	0.000	54.20299	54.22978

```

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | - Redundant | = Num. Coefs |
+-----+-----+-----+-----+
| id           | 63609      | 63609       | 0             | *
| munid#year  | 4438       | 0           | 4438          |
+-----+-----+-----+-----+
* = FE nested within cluster; treated as redundant for DoF computation
(est1 stored)

1539 . estadd scalar N1 = e(N)
added scalar:
e(N1) = 127218

1540 . estadd scalar N2 = e(N)/2
added scalar:
e(N2) = 63609

1541 . estadd scalar N3 = e(N_clust)
added scalar:
e(N3) = 16121

1542 . estadd local district "\checkmark"
added macro:
e(district) : "\checkmark"

1543 . estadd local stateyear "\checkmark"
added macro:
e(stateyear) : "\checkmark"

1544 . restore

1545 .
1546 . preserve

1547 .
1548 . keep if year==2006 | year==2009
(256,661 observations deleted)

1549 . gen a=1 if change_ari_z!=. & turnout!=.
(7,139 missing values generated)

1550 . bysort id: egen sum_a=sum(a)

1551 . keep if sum_a==2
(7,764 observations deleted)

1552 .
1553 . eststo: reghdfe turnout 1.post#c.change_ari_z [aw = total_votes] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
(dropped 481 singleton_observations)
note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE_estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

HDFE Linear regression      Number of obs = 120,966
Absorbing 2 HDFE groups    F( 1, 15332) = 3.35
Statistics robust to heteroskedasticity  Prob > F = 0.0670
R-squared = 0.9535
Adj R-squared = 0.8998
Within R-sq. = 0.0001
Root MSE = 3.8069

Number of clusters (clues) = 15,333      Root MSE = 3.8069
(Std. err. adjusted for 15,333 clusters in clues)

```

turnout	Coefficient	std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari_2	0 (omitted)					
post#c.change_ari_1	-.0064553	.0035245	-1.83	0.067	-.0133637	.0004531
_cons	54.17128	.0034875	1.6e+04	0.000	54.16444	54.17811

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60483	60483	0 *
munid#year	4382	0	4382

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

1554 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 120966

1555 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 60483

1556 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15333

1557 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1558 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1559 . restore
1560 .
1561 . preserve
1562 .
1563 . gen a=1 if change_ari!=. & turnout!=.
      (191,269 missing values generated)

1564 . bysort id: egen sum_a=sum(a)

1565 . keep if sum_a==3
      (118,052 observations deleted)

1566 .
1567 . eststo: reghdfe turnout 1.post##c.change_ari [aw = total_votos, absorb(id i.munid#1.year) cluster(clues)
      (dropped 654 singleton observations)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MDFE estimator converged in 8 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity
  
```

Statistics	Value
Number of obs	= 190,322
F(1, 16101)	= 19.19
Prob > F	= 0.0000
R-squared	= 0.9487
Adj R-squared	= 0.9188
Within R-sq.	= 0.0005
Root MSE	= 3.3929

Number of clusters (clues) = 16,102

(Std. err. adjusted for 16,102 clusters in clues)

turnout	Robust Coefficient	std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari	0 (omitted)					
post#c.change_ari_1	-.1110811	.0253596	-4.38	0.000	-.1607888	-.0613735
_cons	58.1339	.0068458	8491.96	0.000	58.12048	58.14732

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63450	63450	0 *
munid#year	6653	0	6653

* = FE nested within cluster; treated as redundant for DoF computation (est3 stored)

```

1568 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 190322

1569 . estadd scalar N2 = e(N)/3
      added scalar:
            e(N2) = 63440.667

1570 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16102

1571 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1572 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1573 .
1574 . restore
  
```

```

1575 .
1576 . preserve

1577 .
1578 . gen a=1 if change_ari_z!=. & turnout!=.
      (200,991 missing values generated)

1579 . bysort id: egen sum_a=sum(a)

1580 . keep if sum_a==3
      (131,548 observations deleted)

1581 .
1582 . eststo: reghdfe turnout 1.post#*c.change_ari_z [aw = total_votes], absorb(id i.munid#i.year) cluster(clues)
      (dropped 696 observations)
      note: 1m.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 8 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDPE Linear regression                Number of obs = 180,975
      Absorbing 2 HDPE groups              F( 1, 15314) = 0.47
      Statistics robust to heteroskedasticity Prob > F = 0.4939
                                             R-squared = 0.9488
                                             Adj R-squared = 0.9188
                                             Within R-sq. = 0.0000
                                             Root MSE = 3.3935

      Number of clusters (clues) = 15,315      Root MSE = 3.3935
                                             (Std. err. adjusted for 15,315 clusters in clues)

      +-----+-----+-----+-----+-----+-----+
      |          |          |          |          |          |          | | |
      | turnout  | Coefficient | Robust | t | P>|t| | [95% conf. interval] |
      |          |            | std. err. |   |      |          |
      +-----+-----+-----+-----+-----+-----+
      | 1.post   |            |          |   |      |          | |
      | change_ari_z | 0 (omitted) |          |   |      |          |
      |          |            |          |   |      |          |
      | post#c.change_ari_z |          |          |   |      |          |
      | 1       | -.0016942 | .0024766 | -0.68 | 0.494 | -.0065486 | .0031603 |
      |          |            |          |   |      |          |
      | _cons   | 58.09377  | .0036853 | 1.6e+04 | 0.000 | 58.08655  | 58.10099  |
      +-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | Redundant | Num. Coefs |
+-----+-----+-----+-----+
| id          | 60334      | 60334     | 0          | *
| munid#year | 6566      | 0         | 6566     |
+-----+-----+-----+-----+
* = FE nested within cluster; treated as redundant for DoF computation
(est4 stored)

1583 . estadd scalar N1 = e(N)
      added scalar:
              e(N1) = 180975

1584 . estadd scalar N2 = e(N)/3
      added scalar:
              e(N2) = 60325

1585 . estadd scalar N3 = e(N_clust)
      added scalar:
              e(N3) = 15315

1586 . estadd local district "\checkmark"
      added macro:
              e(district) : "\checkmark"

1587 . estadd local stateyear "\checkmark"
      added macro:
              e(stateyear) : "\checkmark"

1588 .
1589 . restore

1590 .
1591 . esttab est* using "Soutput/tableC8.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
      > compress lines star* .1 ** .05 *** .01 label ///
      > mgroups("2006-2009" "2006-2012", pattern(1 0 1 0) prefix(\multicolumn{#span}{c}{}) suffix{)} span erepeat(\cmdirule{lr}{#span}) ///
      > b(49.3f) se(49.3f) stats(N1 N2 N3 district stateyear, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE")) ///
      > fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > coeflabels(1.post#c.change_ari "1[Year $geq$ 2009] $times$ Excess ARI cases (1000s)" ///
      > 1.post#c.change_ari_z "1[Year $geq$ 2009] $times$ Excess ARI cases (z-score)" ///
      > order(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > nodepvars nomtitle prehead{\begin{tabular}{l*{5}{c}} \toprule} ///
      > postfoot{\bottomrule \end{tabular}}
      (output written to /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/tableC8.tex)

1592 .
      end of do-file

1593 . do "/var/folders/q3/rmf9jk5n3lbfy0jr6bt7d3ch0000gn/T//SD58535.000000"

1594 . *****
1595 . * ELECTORAL REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK *
1596 . *****
1597 .
1598 . // THIS FILE REPLICATES TABLES C2 AND C3 IN APPENDIX C OF "ELECTORAL
1599 . // REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK" BY
1600 . // EMILIO GUTIÉRREZ, JAAKKO MERILÄINEN, AND ADRIÁN RUBLI
1601 .
1602 . global data "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/data" // Insert data directory here

1603 . global output "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output" // Insert output directory here

1604 .
1605 . * Open data
1606 .
1607 . use "$data/GMR_district_level_data.dta", clear

1608 .
1609 . *****
1610 .
1611 . gen post=0

1612 . replace post=1 if year!=2006
      (600 real changes made)

1613 .
1614 . * Table C2
1615 .

```

```

1616 . preserve
1617 .
1618 . keep if year==2006 | year==2009
      (300 observations deleted)
1619 .
1620 . est clear
1621 .
1622 . eststo: reghdfe PAN_voteshare 1.post#%c.change_ari [aw=total_votos] if year==2006 | year==2009, absorb(id i.estado#i.year) cluster(id)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWF estimator converged in 5 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

```

```

HDFE Linear regression           Number of obs =      600
Absorbing 2 HDFE groups         F( 1, 299) =      6.06
Statistics robust to heteroskedasticity  Prob > F =      0.0144
                                   R-squared =      0.9468
                                   Adj R-squared =      0.8645
                                   Within R-sq. =      0.0293
                                   Root MSE =      4.6587

Number of clusters (id) =      300
                                   (Std. err. adjusted for 300 clusters in id)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari	0 (omitted)					
post#c.change_ari						
1	-.0097221	.0039484	-2.46	0.014	-.0174923	-.001952
_cons	31.3114	.1538877	203.47	0.000	31.00856	31.61424

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	300	300	0 *
estado#year	64	0	64

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

1623 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 600
1624 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 300
1625 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1626 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1627 .
1628 . restore
1629 .
1630 . preserve
1631 .
1632 . keep if year==2006 | year==2009
      (300 observations deleted)

```

```

1633 .
1634 . eststo: reghdfe PAN_voteshare 1.post#%c.change_ari_z [aw=total_votos] if year==2006 | year==2009, absorb(id i.estado#i.year) cluster(id)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWF estimator converged in 5 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

```

```

HDFE Linear regression           Number of obs =      600
Absorbing 2 HDFE groups         F( 1, 299) =      0.91
Statistics robust to heteroskedasticity  Prob > F =      0.3422
                                   R-squared =      0.9454
                                   Adj R-squared =      0.8608
                                   Within R-sq. =      0.0030
                                   Root MSE =      4.7216

Number of clusters (id) =      300
                                   (Std. err. adjusted for 300 clusters in id)

```

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari_z	0 (omitted)					
post#c.change_ari_z						
1	-.0740887	.0778706	-0.95	0.342	-.2273326	.0791552
_cons	31.07193	.1465667	212.00	0.000	30.78349	31.36036

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	300	300	0 *
estado#year	64	0	64

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

1635 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 600
1636 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 300

```

```

1637 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1638 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1639 . restore
1640 .
1641 . preserve
1642 .
1643 . gen a=1 if change_ari!=. & PAN_voteshare!=.
1644 .
1645 .
1646 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari [aw=total_votos], absorb(id i.estado#l.year) cluster(id)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 5 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

```

```

HDFE Linear regression      Number of obs =    900
Absorbing 2 HDFE groups    F( 1, 299) =    7.90
Statistics robust to heteroskedasticity  Prob > F =    0.0053
                                R-squared =    0.9333
                                Adj R-squared =    0.8808
                                Within R-sq. =    0.0185
                                Root MSE =    4.1949
Number of clusters (id) =    300

```

(std. err. adjusted for 300 clusters in id)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari	0 (omitted)					
post#c.change_ari						
1	-.0085913	.0030561	-2.81	0.005	-.0146055	-.0025772
_cons	29.43098	.177537	165.77	0.000	29.0816	29.78036

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	300	300	0 *
estado#year	96	0	96

* = FE nested within cluster; treated as redundant for DoF computation (est3 stored)

```

1647 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) =    900
1648 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) =    300
1649 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1650 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1651 .
1652 . restore
1653 .
1654 . preserve
1655 .
1656 . gen a=1 if change_ari_2!=. & PAN_voteshare!=.
1657 .
1658 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_2 [aw=total_votos], absorb(id i.estado#i.year) cluster(id)
      note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_2 is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MWE estimator converged in 5 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_2 omitted because of collinearity

```

```

HDFE Linear regression      Number of obs =    900
Absorbing 2 HDFE groups    F( 1, 299) =    0.32
Statistics robust to heteroskedasticity  Prob > F =    0.5742
                                R-squared =    0.9321
                                Adj R-squared =    0.8786
                                Within R-sq. =    0.0003
                                Root MSE =    4.2336
Number of clusters (id) =    300

```

(std. err. adjusted for 300 clusters in id)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari_2	0 (omitted)					
post#c.change_ari_2						
1	-.0258249	.0459151	-0.56	0.574	-.1161827	.0645328
_cons	29.00441	.1289522	224.92	0.000	28.75064	29.25818

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	300	300	0 *
estado#year	96	0	96

* = FE nested within cluster; treated as redundant for DoF computation (est4 stored)

```

1659 . estadd scalar N1 = e(N)

added scalar:
      e(N1) = 900

1660 . estadd scalar N3 = e(N_clust)

added scalar:
      e(N3) = 300

1661 . estadd local district "\checkmark"

added macro:
      e(district) : "\checkmark"

1662 . estadd local stateyear "\checkmark"

added macro:
      e(stateyear) : "\checkmark"

1663 .
1664 . restore

1665 .
1666 . esttab est* using "$output/tableC2.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
> compress lines star(*.1** .05*** .01) label ///
> mgroups("2006-2009" "2006-2012", pattern(1 0 1 0) prefix("\multicolumn{#span}{c}{ } suffix{ } span erepeat(\cmidrule{lr}{#span})" ///
> b(49.3f) se(49.3f) stats(N1 N3 district stateyear, labels:"Number of observations" "Number of clusters" "District FE" "State-year FE" ///
> fmt(0 0 0)) keep(1.post#c.change_ari 1.post#c.change_ari_z) ///
> coeflabels(1.post#c.change_ari "1[Year $%geq$ 2009] $%times$ Excess ARI cases (1000s)" ///
> 1.post#c.change_ari_z "1[Year $%geq$ 2009] $%times$ Excess ARI cases (z-score)" ///
> order(1.post#c.change_ari 1.post#c.change_ari_z) ///
> nodelvars nomtitle prehead(\begin{tabular}{l*{5}{c}} \toprule ///
> postfoot(\bottomrule \end{tabular})
(output written to /Users/jaakko/Dropbox/jaakko_adrian_emilio/submissions/top/final/replication_materials/output/tableC2.tex)

1667 .
1668 . *****
1669 .
1670 . * Table C3
1671 .
1672 . preserve

1673 .
1674 . keep if year==2006 | year==2009
(300 observations deleted)

1675 .
1676 . est clear

1677 .
1678 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari if year==2006 | year==2009, absorb(id i.estado#i.year) cluster(id)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(NMFE_estimator converged in 2 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs =      600
Absorbing 2 HDFE groups    F( 1, 299) =      5.15
Statistics robust to heteroskedasticity    Prob > F =      0.0240
                                          R-squared =      0.9438
                                          Adj R-squared =      0.8568
                                          Within R-sq. =      0.0275
Number of clusters (id)    =      300      Root MSE =      4.7933

(Std. err. adjusted for 300 clusters in id)

+-----+-----+-----+-----+-----+-----+
| PAN_voteshare | Robust |          |          |          |          |          |
| Coefficient | std. err. | t | P>|t| | [95% conf. interval] |
+-----+-----+-----+-----+-----+-----+
| 1.post |          |          |          |          |          |          |
| change_ari |          |          |          |          |          |          |
| post#c.change_ari |          |          |          |          |          |          |
| 1 |          |          |          |          |          |          |
| _cons |          |          |          |          |          |          |
+-----+-----+-----+-----+-----+-----+
|          |          |          |          |          |          |          |
+-----+-----+-----+-----+-----+-----+

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | Redundant | Num. Coefs |
+-----+-----+-----+-----+
| id | 300 | 300 | 0 | *
| estado#year | 64 | 0 | 64 |
+-----+-----+-----+-----+
* = FE nested within cluster; treated as redundant for DoF computation
(est1 stored)

1679 . estadd scalar N1 = e(N)

added scalar:
      e(N1) = 600

1680 . estadd scalar N3 = e(N_clust)

added scalar:
      e(N3) = 300

1681 . estadd local district "\checkmark"

added macro:
      e(district) : "\checkmark"

1682 . estadd local stateyear "\checkmark"

added macro:
      e(stateyear) : "\checkmark"

1683 .
1684 . restore

1685 .
1686 . preserve

1687 .
1688 . keep if year==2006 | year==2009
(300 observations deleted)

1689 .
1690 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z if year==2006 | year==2009, absorb(id i.estado#i.year) cluster(id)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(NMFE_estimator converged in 2 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

```

```

HDFE Linear regression      Number of obs =      600
Absorbing 2 HDFE groups    F( 1, 299) =      1.07
Statistics robust to heteroskedasticity    Prob > F =      0.3010
                                         R-squared =      0.9424
                                         Adj R-squared =      0.8533
                                         Within R-sq. =      0.0037
                                         Root MSE =      4.8515
Number of clusters (id) =      300

```

(Std. err. adjusted for 300 clusters in id)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_2	0 (omitted)				
post#c.change_ari_2_1	-.0851681	.0821989	-1.04	0.301	-.2469298 .0765936
_cons	30.10352	.1734895	173.52	0.000	29.7621 30.44494

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	300	300	0 *
estado#year	64	0	64

* = FE nested within cluster; treated as redundant for DoF computation (est2 stored)

```

1691 . estadd scalar N1 = e(N)
      added scalar:      e(N1) = 600
1692 . estadd scalar N3 = e(N_clust)
      added scalar:      e(N3) = 300
1693 . estadd local district "\checkmark"
      added macro:      e(district) : "\checkmark"
1694 . estadd local stateyear "\checkmark"
      added macro:      e(stateyear) : "\checkmark"
1695 . restore
1696 .
1697 . preserve
1698 .
1699 . gen a=1 if change_ari!=. & PAN_voteshare!=.
1700 .
1701 .
1702 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari, absorb(id i.estado#i.year) cluster(id)
note: lbn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(HDFE_estlmlatog converged in 2 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

```

```

HDFE Linear regression      Number of obs =      900
Absorbing 2 HDFE groups    F( 1, 299) =      6.62
Statistics robust to heteroskedasticity    Prob > F =      0.0106
                                         R-squared =      0.9293
                                         Adj R-squared =      0.8736
                                         Within R-sq. =      0.0173
                                         Root MSE =      4.3370
Number of clusters (id) =      300

```

(Std. err. adjusted for 300 clusters in id)

PAN_voteshare	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari	0 (omitted)				
post#c.change_ari_1	-.008494	.0033023	-2.57	0.011	-.0149926 -.0019953
_cons	29.00459	.1885893	153.80	0.000	28.63346 29.37572

Absorbed degrees of freedom:

Absorbed FE	Categories	Redundant	Num. Coefs
id	300	300	0 *
estado#year	96	0	96

* = FE nested within cluster; treated as redundant for DoF computation (est3 stored)

```

1703 . estadd scalar N1 = e(N)
      added scalar:      e(N1) = 900
1704 . estadd scalar N3 = e(N_clust)
      added scalar:      e(N3) = 300
1705 . estadd local district "\checkmark"
      added macro:      e(district) : "\checkmark"
1706 . estadd local stateyear "\checkmark"
      added macro:      e(stateyear) : "\checkmark"
1707 .
1708 . restore
1709 .
1710 . preserve

```

```

1711 .
1712 . gen a=1 if change_ari_z!=. & PAN_voteshare!=.
1713 .
1714 . eststo: reghdfe PAN_voteshare 1.post#c.change_ari_z, absorb(id i.estado#i.year) cluster(id)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(HDFE_estimator converged in 2 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

HDFE Linear regression      Number of obs =      900
Absorbing 2 HDFE groups    F( 1, 299) =      0.53
Statistics robust to heteroskedasticity    Prob > F =      0.4687
                                         R-squared =      0.9281
                                         Adj R-squared =      0.8714
                                         Within R-sq. =      0.0006
Number of clusters (id)    =      300      Root MSE =      4.3737

(Std. err. adjusted for 300 clusters in id)

```

	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_z	0 (omitted)				
post#c.change_ari_z					
1	-.0380233	.0524101	-0.73	0.469	-.1411627 .0651162
_cons	28.62652	.1474895	194.09	0.000	28.33627 28.91676

```

Absorbed degrees of freedom:
+-----+-----+-----+-----+
| Absorbed FE | Categories | Redundant | Num. Coefs |
+-----+-----+-----+-----+
| id           | 300        | 300        | 0          | *
| estado#year  | 96         | 0          | 96         |
+-----+-----+-----+-----+
* = FE nested within cluster; treated as redundant for DoF computation
(est4 stored)

1715 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 900

1716 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 300

1717 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"

1718 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"

1719 .
1720 . restore

1721 .
1722 . esttab est* using "foutput/tableC3.tex", replace noomit nobaselevels booktabs mlabels(none) ///
> compress lines star(*.1** .05*** .01) label ///
> mgroups("2006-2009" "2006-2012", pattern(1 0 1 0) prefix("\multicolumn{#span}{c}{ } suffix{ } span erepeat(\cmidrule{lr}{#span})) ///
> b(9.3f) se(9.3f) stats(N1 N3 district stateyear, labels("Number of observations" "Number of clusters" "District FE" "State-year FE")) ///
> fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_z) ///
> coeftlabels(1.post#c.change_ari "1[Year $'year$ 2009] $'times$ Excess ARI cases (1000s)" ///
> 1.post#c.change_ari_z "1[Year $'year$ 2009] $'times$ Excess ARI cases (z-score)") ///
> order(1.post#c.change_ari 1.post#c.change_ari_z) ///
> nodelvars nomtitle prehead(\begin{tabular}{l*{5}{c}} \toprule) ///
> postfoot(\bottomrule \end{tabular})
(output written to /Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/tableC3.tex)

1723 .
end of do-file

1724 . do "/var/folders/q3/rmf9jk5n3lbfy0jr6bt7d3cho000gn/T//SD58535.000000"

1725 . *****
1726 . * ELECTORAL REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK *
1727 . *****
1728 .
1729 . // THIS FILE REPLICATES TABLE D1 IN APPENDIX D OF "ELECTORAL
1730 . // REPERCUSSIONS OF A PANDEMIC: EVIDENCE FROM THE 2009 H1N1 OUTBREAK" BY
1731 . // EMILIO GUTIÉRREZ, JAAKKO MERILÄINEN, AND ADRIÁN RUBLI
1732 .
1733 . global data "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/data" // Insert data directory here
1734 . global output "/Users/jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output" // Insert output directory here

1735 .
1736 . * Open data
1737 .
1738 . use "$data/GMR_night_lights.dta", clear

1739 .
1740 . *****
1741 .
1742 . gen year2=year*year // Generate year^2

1743 .
1744 . preserve

1745 .
1746 . keep if year==2006 | year==2009
(323,589 observations deleted)

1747 . gen a=1 if change_ari!=. & nightlights!=.
(141 missing values generated)

1748 . bysort id: egen sum_a=sum(a)

1749 . keep if sum_a==2
(735 observations deleted)

1750 .
1751 . est clear

1752 .
1753 . eststo: reghdfe nightlights 1.post#c.change_ari [sw=total_votos] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clus)
(dropped 573 singleton observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)

```

note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MHFE_estimator converged in 7 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

```

HDPE Linear regression      Number of obs = 127,250
Absorbing 2 HDPE groups    F( 1, 16118) = 4.25
Statistics robust to heteroskedasticity  Prob > F = 0.0392
                                R-squared = 0.9976
                                Adj R-squared = 0.9948
                                Within R-sq. = 0.0002
                                Root MSE = 1.7712
Number of clusters (clues) = 16,119

```

(Std. err. adjusted for 16,119 clusters in clues)

nightlights	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari	0 (omitted)				
post#c.change_ari					
1	.0003379	.0001639	2.06	0.039	.0000167 .0006591
_cons	42.19473	.0029971	1.4e+04	0.000	42.18885 42.2006

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63625	63625	0 *
munid#year	4494	0	4494

* = FE nested within cluster; treated as redundant for DoF computation (est1 stored)

```

1754 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 127250

1755 . estadd scalar N2 = e(N)/2
      added scalar:
            e(N2) = 63625

1756 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16119

1757 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1758 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1759 . estadd local linear " "
      added macro:
            e(linear) : " "

1760 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "

1761 . restore
1762 .
1763 . preserve
1764 .
1765 . keep if year==2006 | year==2009
      (323,589 observations deleted)

1766 . gen a=1 if change_ari_z!=. & nightlights!=.
      (6,413 missing values generated)

1767 . bysort id: egen sum_a=sum(a)

1768 . keep if sum_a==2
      (6,965 observations deleted)

1769 .
1770 . eststo: reghdfe nightlights 1.post#*c.change_ari_z [aw=total_votos] if year==2006 | year==2009, absorb(id i.munid#i.year) cluster(clues)
      (dropped 583 singleton_observations)
      note: 1ba.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MHFE_estimator converged in 7 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

```

```

HDPE Linear regression      Number of obs = 121,010
Absorbing 2 HDPE groups    F( 1, 15333) = 2.83
Statistics robust to heteroskedasticity  Prob > F = 0.0926
                                R-squared = 0.9976
                                Adj R-squared = 0.9947
                                Within R-sq. = 0.0001
                                Root MSE = 1.7802
Number of clusters (clues) = 15,334

```

(Std. err. adjusted for 15,334 clusters in clues)

nightlights	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_z	0 (omitted)				
post#c.change_ari_z					
1	.0034267	.0020376	1.68	0.093	-.0005673 .0074207
_cons	41.95887	.0020158	2.1e+04	0.000	41.95492 41.96282

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60505	60505	0 *
munid#year	4436	0	4436

* = FE nested within cluster; treated as redundant for DoF computation

```
(est2 stored)
1771 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 121010
1772 . estadd scalar N2 = e(N)/2
added scalar:
      e(N2) = 60505
1773 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 15334
1774 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"
1775 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"
1776 . estadd local linear " "
added macro:
      e(linear) : " "
1777 . estadd local quadratic " "
added macro:
      e(quadratic) : " "
1778 . restore
1779 .
1780 . preserve
1781 .
1782 . gen a=1 if change_ari!=. & nightlights!=.
      (494 missing values generated)
1783 . bysort id: egen sum_a=sum(a)
1784 . keep if sum_a==7
      (5,358 observations deleted)
1785 .
```

```
1786 . eststo: reghdfe nightlights 1.post#c.change_ari [aw=total_votes], absorb(id i.munid#i.year) cluster(clues)
      (dropped 1934 singleton observations)
note: 1st.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 8 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity
```

```

HDFE Linear regression           Number of obs = 444,803
Absorbing 2 HDFE groups         F( 1, 16113) = 1.10
Statistics robust to heteroskedasticity Prob > F = 0.2936
                                R-squared = 0.9953
                                Adj R-squared = 0.9943
                                Within R-sq. = 0.0000
                                Root MSE = 1.8069

Number of clusters (clues) = 16,114
                                (Std. err. adjusted for 16,114 clusters in clues)

```

nightlights	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0 (omitted)					
change_ari	0 (omitted)					
post#c.change_ari						
1	-.0001342	.0001278	-1.05	0.294	-.0003847	.0001163
_cons	43.23803	.0028406	1.5e+04	0.000	43.23246	43.2436

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63553	63553	0 *
munid#year	15726	0	15726

* = FE nested within cluster; treated as redundant for DoF computation
(est3 stored)

```
1787 . estadd scalar N1 = e(N)
added scalar:
      e(N1) = 444803
1788 . estadd scalar N2 = e(N)/7
added scalar:
      e(N2) = 63543.286
1789 . estadd scalar N3 = e(N_clust)
added scalar:
      e(N3) = 16114
1790 . estadd local district "\checkmark"
added macro:
      e(district) : "\checkmark"
1791 . estadd local stateyear "\checkmark"
added macro:
      e(stateyear) : "\checkmark"
1792 . estadd local linear " "
added macro:
      e(linear) : " "
1793 . estadd local quadratic " "
added macro:
      e(quadratic) : " "
1794 .
```

```

1795 . restore
1796 .
1797 . preserve
1798 .
1799 . gen a=1 if change_ari_z!=. & nightlights!=.
      (22,770 missing values generated)

1800 . bysort id: egen sum_a=sum(a)

1801 . keep if sum_a==7
      (27,121 observations deleted)

1802 .
1803 . eststo: reghdfe nightlights 1.post#e.change_ari_z [sw=total_votes], absorb(id i.munid#i.year) cluster(clues)
      (dropped 1976 singleton observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(HDFE estimator converged in 8 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity

HDFE Linear regression      Number of obs = 422,999
Absorbing 2 HDFE groups    F( 1, 15327) = 0.36
Statistics robust to heteroskedasticity  Prob > F = 0.5471
                                         R-squared = 0.9954
                                         Adj R-squared = 0.9944
                                         Within R-sq. = 0.0000
                                         Root MSE = 1.8082

Number of clusters (clues) = 15,328

```

(Std. err. adjusted for 15,328 clusters in clues)

nightlights	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_z	0 (omitted)				
post#c.change_ari_z					
1	.0008007	.0013296	0.60	0.547	-.0018055 .0034068
__cons	43.0082	.0016156	2.7e+04	0.000	43.00503 43.01137

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60438	60438	0 *
munid#year	15516	0	15516

* = FE nested within cluster; treated as redundant for DoF computation
(est4 stored)

```

1804 . estadd scalar N1 = e(N)
      added scalar:
           e(N1) = 422999

1805 . estadd scalar N2 = e(N)/7
      added scalar:
           e(N2) = 60428.429

1806 . estadd scalar N3 = e(N_clust)
      added scalar:
           e(N3) = 15328

1807 . estadd local district "\checkmark"
      added macro:
           e(district) : "\checkmark"

1808 . estadd local stateyear "\checkmark"
      added macro:
           e(stateyear) : "\checkmark"

1809 . estadd local linear " "
      added macro:
           e(linear) : " "

1810 . estadd local quadratic " "
      added macro:
           e(quadratic) : " "

1811 .
1812 . restore
1813 .
1814 . preserve
1815 .
1816 . gen a=1 if change_ari!=. & nightlights!=.
      (494 missing values generated)

1817 . bysort id: egen sum_a=sum(a)

1818 . keep if sum_a==7
      (5,358 observations deleted)

1819 .
1820 . eststo: reghdfe nightlights 1.post#e.change_ari [sw=total_votes], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 1934 singleton observations)
note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(HDFE estimator converged in 15 iterations)
note: 1.post omitted because of collinearity
note: change_ari omitted because of collinearity

HDFE Linear regression      Number of obs = 444,803
Absorbing 3 HDFE groups    F( 1, 16113) = 1.45
Statistics robust to heteroskedasticity  Prob > F = 0.2285
                                         R-squared = 0.9972
                                         Adj R-squared = 0.9958
                                         Within R-sq. = 0.0000
                                         Root MSE = 1.5487

Number of clusters (clues) = 16,114

```

(Std. err. adjusted for 16,114 clusters in clues)

nightlights	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				

change_ari	0 (omitted)					
post#c.change_ari						
1	.0002203	.0001829	1.20	0.229	-.0001383	.0005788
_cons	43.23015	.0040651	1.1e+04	0.000	43.22218	43.23812

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	63553	63553	0 *
munid#year	15726	0	15726
id#c.year	63553	0	63553 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est5 stored)

```

1821 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 444803
1822 . estadd scalar N2 = e(N)/7
      added scalar:
            e(N2) = 63543.286
1823 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16114
1824 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1825 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1826 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"
1827 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1828 .
1829 . restore
1830 .
1831 .
1832 . preserve
1833 .
1834 . gen a=1 if change_ari_2!=. & nightlights!=.
      (22,770 missing values generated)
1835 . bysort id: egen sum_a=sum(a)
1836 . keep if sum_a=7
      (27,121 observations deleted)
1837 .
1838 . eststo: reghdfe nightlights 1.post#e.change_ari_z [aw=total_votes], absorb(id i.munid#i.year i.id#c.year) cluster(clues)
      (dropped 1976 singletons observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (MLE estimator converged in 18 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari_z omitted because of collinearity

      HDFE Linear regression           Number of obs = 422,999
      Absorbing 3 HDFE groups           F( 1, 15327) = 1.25
      Statistics robust to heteroskedasticity   Prob > F = 0.2626
                                                    R-squared = 0.9972
                                                    Adj R-squared = 0.9959
                                                    Within R-sq. = 0.0000
      Number of clusters (clues) = 15,328       Root MSE = 1.5468

      (Std. err. adjusted for 15,328 clusters in clues)
  
```

nightlights	Robust				
	Coefficient	std. err.	t	P> t	[95% conf. interval]
1.post	0 (omitted)				
change_ari_z	0 (omitted)				
post#c.change_ari_z					
1	.0023031	.002056	1.12	0.263	-.0017269 .0063331
_cons	43.00637	.0024982	1.7e+04	0.000	43.00148 43.01127

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60438	60438	0 *
munid#year	15516	0	15516
id#c.year	60438	0	60438 ?

? = number of redundant parameters may be higher
 * = FE nested within cluster; treated as redundant for DoF computation
 (est6 stored)

```

1839 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 422999
1840 . estadd scalar N2 = e(N)/7
      added scalar:
            e(N2) = 60428.429
1841 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15328
  
```

```

1842 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1843 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1844 . estadd local linear "\checkmark"
      added macro:
            e(linear) : "\checkmark"
1845 . estadd local quadratic " "
      added macro:
            e(quadratic) : " "
1846 .
1847 . restore
1848 .
1849 . preserve
1850 .
1851 . gen a=1 if change_ari!=. & nightlights!=.
      (494 missing values generated)
1852 . bysort id: egen sum_a=sum(a)
1853 . keep if sum_a==7
      (5,358 observations deleted)
1854 .
1855 . eststo: reghdfe nightlights 1.post#c.change_ari [aw=total_votes], absorb(id i.munid#1.year i.id#c.year i.id#c.year2) cluster(clues)
      (dropped 1934 singleton observations)
      note: 1bn.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      note: change_ari is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
      (HDFE estimation converged in 24 iterations)
      note: 1.post omitted because of collinearity
      note: change_ari omitted because of collinearity

HDFE Linear regression                Number of obs = 444,803
Absorbing 4 HDFE groups                F( 1, 16113) = 1.20
Statistics robust to heteroskedasticity Prob > F = 0.2735
                                         R-squared = 0.9972
                                         Adj R-squared = 0.9947
                                         Within R-sq. = 0.0000
                                         Root MSE = 1.7430

Number of clusters (clues) = 16,114

(Std. err. adjusted for 16,114 clusters in clues)
-----+-----
      |             |             |             |             |             |             | | |
      | nightlights | Coefficient | Robust      | t      | P>|t|      | [95% conf. interval] |
      |             |             | std. err.   |         |            |                       |
-----+-----
      |             |             |             |         |            |                       |
      | 1.post      |             |             |         |            |                       |
      | change_ari  |             |             |         |            |                       |
      | post#c.change_ari | .0002204   | .0002012   | 1.09   | 0.274      | -.0001741   .0006148 |
      | 1          |             |             |         |            |                       |
      | _cons      | 43.23015   | .0044728   | 9665.19 | 0.000      | 43.22138    43.23892 |
-----+-----

Absorbed degrees of freedom:
-----+-----
Absorbed FE | Categories - Redundant = Num. Coefs
-----+-----
id          | 63553      63553      0      *
munid#year  | 15726      0          15726  ?
id#c.year   | 63553      0          63553  ?
id#c.year2  | 63553      0          63553  ?
-----+-----
? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est7 stored)

1856 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 444803
1857 . estadd scalar N2 = e(N)/7
      added scalar:
            e(N2) = 63543.286
1858 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 16114
1859 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"
1860 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"
1861 . estadd local linear " "
      added macro:
            e(linear) : " "
1862 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"
1863 .
1864 . restore
1865 .
1866 . preserve
1867 .
1868 . gen a=1 if change_ari_z1!=. & nightlights!=.
      (22,770 missing values generated)
1869 . bysort id: egen sum_a=sum(a)
1870 . keep if sum_a==7

```

(27,121 observations deleted)

```
1871 .
1872 . eststo: reghdfe nightlights 1.post#c.change_ari_z [aw=total_votes], absorb(id i.munid#i.year i.id#c.year i.id#e.year2) cluster(clues)
      (dropped 1976 singleton observations)
note: lba.post is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
note: change_ari_z is probably collinear with the fixed effects (all partialled-out values are close to zero; tol = 1.0e-09)
(MWFE estimator converged in 18 iterations)
note: 1.post omitted because of collinearity
note: change_ari_z omitted because of collinearity
```

```
HDFE Linear regression      Number of obs = 422,999
Absorbing 4 HDFE groups    F( 1, 15327) = 1.04
Statistics robust to heteroskedasticity    Prob > F = 0.3085
                                          R-squared = 0.9972
                                          Adj R-squared = 0.9948
                                          Within R-sq. = 0.0000
Number of clusters (clues) = 15,328      Root MSE = 1.7414
```

(Std. err. adjusted for 15,328 clusters in clues)

nightlights	Coefficient	Robust std. err.	t	P> t	[95% conf. interval]	
1.post	0	(omitted)				
change_ari_z	0	(omitted)				
post#c.change_ari_z						
1	.0023042	.0022627	1.02	0.309	-.002131	.0067394
_cons	43.00637	.0027494	1.6e+04	0.000	43.00098	43.01176

Absorbed degrees of freedom:

Absorbed FE	Categories	- Redundant	= Num. Coefs
id	60438	60438	0 *
munid#year	15516	0	15516
id#c.year	60438	0	60438 ?
id#e.year2	60438	0	60438 ?

? = number of redundant parameters may be higher
* = FE nested within cluster; treated as redundant for DoF computation
(est8 stored)

```
1873 . estadd scalar N1 = e(N)
      added scalar:
            e(N1) = 422999

1874 . estadd scalar N2 = e(N)/7
      added scalar:
            e(N2) = 60428.429

1875 . estadd scalar N3 = e(N_clust)
      added scalar:
            e(N3) = 15328

1876 . estadd local district "\checkmark"
      added macro:
            e(district) : "\checkmark"

1877 . estadd local stateyear "\checkmark"
      added macro:
            e(stateyear) : "\checkmark"

1878 . estadd local linear " "
      added macro:
            e(linear) : " "

1879 . estadd local quadratic "\checkmark"
      added macro:
            e(quadratic) : "\checkmark"

1880 .
1881 . restore

1882 .
1883 . esttab est* using "output/tableD1.tex", replace noomitted nobaselevels booktabs mlabels(none) ///
      > compress lines star*.1 ** .05 *** .01 label ///
      > mgroups("2006 and 2009" "2006-2012", pattern(1 0 1 0 0 0 0) prefix(\multicolumn{#span}{c}{}) suffix{ }) span erepeat(\cmidrule{1r}{#span}) ///
      > b(49.5f) se(49.5f) stats(N1 N2 N3 district stateyear linear quadratic, labels("Number of observations" "Number of sections" "Number of clusters" "Section FE" "Municipality-year FE" "Linear time trend" "Quadratic time trend") //
      > /
      > fmt(0 0 0) keep(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > coeflabels(1.post#c.change_ari "1[Year $\geq$ 2009] $\times$ Excess ARI cases (10,000s)" ///
      > 1.post#c.change_ari_z "1[Year $\geq$ 2009] $\times$ Excess ARI cases (z-score)") ///
      > order(1.post#c.change_ari 1.post#c.change_ari_z) ///
      > nodelvars nomtitle prehead(\begin{tabular}{l}{c} \toprule) ///
      > postfoot(\bottomrule \end{tabular})
      (output written to /Users/Jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/output/tableD1.tex)

1884 .
      end of do-file

1885 . log close
      name: <unnamed>
      log: /Users/Jaakko/Dropbox/Jaakko_Adrian_Emilio/submissions/JoP/final/replication_materials/GMR_replication_log.smcl
      log type: smcl
      closed on: 3 Nov 2021, 16:51:32
```